

# **Accessibility research 'Online Bibliotheek' app for Android**

**Client**

Koninklijke Bibliotheek (KB)


























**Date**




















18 February 2025

**Report version**















1.0.0

# Table of Contents

<b>Executive summary</b>	<b>5</b>
<b>1. Introduction</b>	<b>7</b>
<b>2. Research</b>	<b>8</b>
2.1. Scope	9
2.2. Devices	9
2.3. Techniques	9
<b>3. Results</b>	<b>10</b>
 Success Criterion 1.1.1 - Non-text Content	13
 Success Criterion 1.2.1 - Audio-only and Video-only (Prerecorded)	15
 Success Criterion 1.2.2 - Captions (Prerecorded)	16
 Success Criterion 1.2.3 - Audio Description or Media Alternative (Prerecorded)	16
 Success Criterion 1.2.4 - Captions (Live)	16
 Success Criterion 1.2.5 - Audio Description (Prerecorded)	17
 Success Criterion 1.3.1 - Info and Relationships	18
 Success Criterion 1.3.2 - Meaningful Sequence	20
 Success Criterion 1.3.3 - Sensory Characteristics	21
 Success Criterion 1.3.4 - Orientation	22
 Success Criterion 1.3.5 - Identify Input Purpose	23
 Success Criterion 1.4.1 - Use of Color	24
 Success Criterion 1.4.2 - Audio Control	26
 Success Criterion 1.4.3 - Contrast (Minimum)	27
 Success Criterion 1.4.4 - Resize text	28
 Success Criterion 1.4.5 - Images of Text	32
 Success Criterion 1.4.10 - Reflow	32
 Success Criterion 1.4.11 - Non-text Contrast	33
 Success Criterion 1.4.12 - Text Spacing	35
 Success Criterion 1.4.13 - Content on Hover or Focus	35
 Success Criterion 2.1.1 - Keyboard	36
 Success Criterion 2.1.2 - No Keyboard Trap	39
 Success Criterion 2.1.4 - Character Key Shortcuts	39
 Success Criterion 2.2.1 - Timing Adjustable	40
 Success Criterion 2.2.2 - Pause, Stop, Hide	41

 Succes Criterion 2.3.1 - Three Flashes or Below Threshold	41
 Succes Criterion 2.4.3 - Focus Order	42
 Succes Criterion 2.4.4 - Link Purpose (In Context)	44
 Succes Criterion 2.4.6 - Headings and Labels	44
 Succes Criterion 2.4.7 - Focus Visible	44
 Succes Criterion 2.5.1 - Pointer Gestures	45
 Succes Criterion 2.5.2 - Pointer Cancellation	45
 Succes Criterion 2.5.3 - Label in Name	45
 Succes Criterion 2.5.4 - Motion Actuation	46
 Succes Criterion 3.1.1 - Language of Page	46
 Succes Criterion 3.2.1 - On Focus	46
 Succes Criterion 3.2.2 - On Input	47
 Succes Criterion 3.3.1 - Error Identification	47
 Succes Criterion 3.3.2 - Labels or Instructions	47
 Succes Criterion 3.3.3 - Error Suggestion	48
 Succes Criterion 3.3.4 - Error Prevention (Legal, Financial, Data)	49
 Succes Criterion 4.1.1 - Parsing	49
 Succes Criterion 4.1.2 - Name, Role, Value	50
 Succes Criterion 4.1.3 - Status Messages	59

## **4. Recommendations 61**

 Succes Criterion 1.1.1 - Non-text Content	61
 Succes Criterion 1.2.1 - Audio-only and Video-only (Prerecorded)	61
 Succes Criterion 1.3.1 - Info and Relationships	62
 Succes Criterion 1.3.2 - Meaningful Sequence	62
 Succes Criterion 1.3.4 - Orientation	62
 Succes Criterion 1.4.1 - Use of Color	63
 Succes Criterion 1.4.2 - Audio Control	63
 Succes Criterion 1.4.3 - Contrast (Minimum)	63
 Succes Criterion 1.4.4 - Resize text	64
 Succes Criterion 1.4.11 - Non-text Contrast	64
 Succes Criterion 2.1.1 - Keyboard	64
 Succes Criterion 2.2.1 - Timing Adjustable	65
 Succes Criterion 2.4.3 - Focus Order	65
 Succes Criterion 3.3.3 - Error Suggestion	65

















 Succes Criterion 4.1.2 - Name, Role, Value	66
 Succes Criterion 4.1.3 - Status Messages	66

## **Appendix A: Findings per screen** **67**

1. Pop-up	68
2. Home	69
3. Populaire Zelfhulp	73
4. Zoeken	77
5. Boeken	81
6. Lijsten	82
7. Meer	83
8. Onboarding	85
9. Log-in	86
10. eBook	87
11. Boekenplank	89
12. Waardering en recensies	91
13. Audio player	93

# Executive summary

Abra has carried out accessibility research on behalf of Koninklijke Bibliotheek (KB). We have selected 13 screens through a structured sample. We have checked whether these screens comply with the EN 301 549 standard. This standard references 44 success criteria from the WCAG 2.1.

- We found 49 problems on 13 screens.
- The app passes 28 of the 44 success criteria.
- The app does not pass the following success criteria:
  1.  Success Criterion 1.1.1 - Non-text Content
  2.  Success Criterion 1.2.1 - Audio-only and Video-only (Prerecorded)
  3.  Success Criterion 1.3.1 - Info and Relationships
  4.  Success Criterion 1.3.2 - Meaningful Sequence
  5.  Success Criterion 1.3.4 - Orientation
  6.  Success Criterion 1.4.1 - Use of Color
  7.  Success Criterion 1.4.2 - Audio Control
  8.  Success Criterion 1.4.3 - Contrast (Minimum)
  9.  Success Criterion 1.4.4 - Resize text
  10.  Success Criterion 1.4.11 - Non-text Contrast
  11.  Success Criterion 2.1.1 - Keyboard
  12.  Success Criterion 2.2.1 - Timing Adjustable
  13.  Success Criterion 2.4.3 - Focus Order
  14.  Success Criterion 3.3.3 - Error Suggestion
  15.  Success Criterion 4.1.2 - Name, Role, Value
  16.  Success Criterion 4.1.3 - Status Messages

We thoroughly checked the Online Bibliotheek app. Most of the issues are recurring, and we strongly advise checking all screens in the app for the reported issues, as they affect the entire app.



The app has color contrast issues. In some places, color is the only way to convey information, which can be problematic for users who are colorblind.

The app should work properly with large text enabled and in different orientation modes.

The external keyboard functions well on most screens; however, the focus indicator lacks sufficient contrast. The screen reader is usable, but name, role, and value are not always properly assigned. Additionally, some content is skipped or not announced correctly.

The app contains audiobooks. Audio content should have text alternatives, unless the audio itself is a media alternative for text and is labeled as such.

The remaining issues vary in nature. Good luck with the improvements!

Questions about this report can be asked via [info@abra.nl](mailto:info@abra.nl) . On our website [abra.nl](http://abra.nl)  you can read more about our services.

# 1. Introduction

Abra has carried out accessibility research on behalf of Koninklijke Bibliotheek (KB). The evaluation method WCAG-EM was used, unless not applicable, in which case Appt-EM was used. We investigated whether the app complies with the EN 301 549 standard. This standard contains 44 success criteria from the WCAG 2.1 guidelines.

## WCAG

WCAG stands for Web Content Accessibility Guidelines. The guideline was originally created for websites, but can also partly be applied to apps. Version 2.1 of the WCAG consists of 4 principles, 13 guidelines and 78 success criteria. The success criteria are divided into three levels: A, AA and AAA. Level A consists of 30 success criteria, level AA of 20 success criteria and level AAA of 28 success criteria. To meet level AA you must also meet level A.

## EN 301 549

EN 301 549 is the European standard for digital accessibility. We applied version 3.2.1 of this standard for this research. Apps fall under the 'Software' chapter. For apps, 44 of the 50 success criteria from level A and AA of the WCAG 2.1 apply. Minor adjustments have been made to the notes or definitions for 13 success criteria, often keeping the context the same. The following success criteria are not mandatory for apps: 2.4.1, 2.4.2, 2.4.5, 3.1.2, 3.2.3 and 3.2.4.

## Accessibility statement

Government agencies are required by law to optimize the accessibility of their apps. They are held accountable for how far they have progressed. For that accountability, government agencies must make and upload an [accessibility statement](#). This report gives a good overview of the level of accessibility.

## Support

Abra supports organizations that want to improve the accessibility of their apps. We provide services and software to improve the accessibility of apps. Our reports always contain solutions specifically for apps.

Questions about this report can be asked via [info@abra.nl](mailto:info@abra.nl). On our website [abra.nl](http://abra.nl) you can read more about our services.

## 2. Research

Abra has carried out accessibility research on behalf of Koninklijke Bibliotheek (KB). This are the details:

**App name**

Online Bibliotheek


**Operating system**

Android

**Tested version**

Version 5.3.2

**Installation method**

<https://play.google.com/store/apps/details?id=com.odilo.bibliotheek> 



**Research type**

WCAG 2.1 level AA

**Applied standard**

[EN 301 549](#)  with [WCAG 2.1](#) 

**Research method**

[WCAG-EM](#)  and [Appt-EM](#) 

**Client**

Koninklijke Bibliotheek (KB)

**Researcher**

Paul van Workum

**Reviewer**

Tanya van Workum

**Date**

18 February 2025

## 2.1. Scope

The research is based on a structured sample. Part of the app has been selected to draw conclusions about the entire app. Problems that occur several times on a screen might only be described once.

*Overview of the selected screens*

Nr	Screen	Path
1	Pop-up	Pop-up < Home
2	Home	Home
3	Populaire Zelfhulp	Home > Populaire Zelfhulp
4	Zoeken	Home > Zoeken
5	Boeken	Home > Boeken
6	Lijsten	Home > Lijsten
7	Meer	Home > Meer
8	Onboarding	Onboarding < Log-in < Home
9	Log-in	Log-in < Home
10	eBook	Home > eBook
11	Boekenplank	Home > Boekenplank
12	Waardering en recensies	Home > eBook > Waardering en recensies
13	Audio player	Home > Boekenplank > Audio player

## 2.2. Devices

The following devices were used during the research:

- Galaxy A53 5G (Android versie 14, Versie One UI 6.1)

## 2.3. Techniques









The app has been developed with the following techniques:





- Kotlin














# 3. Results

The research shows that the 'Online Bibliotheek' app meets 28 of the 44 success criteria from the guideline.

## Results per Success Criterion

Success Criterion	Level	Title	Result
 1.1.1	A	Non-text Content	 Does not pass
 1.2.1	A	Audio-only and Video-only (Prerecorded)	 Does not pass
 1.2.2	A	Captions (Prerecorded)	 Passes
 1.2.3	A	Audio Description or Media Alternative (Prerecorded)	 Passes
 1.2.4	AA	Captions (Live)	 Passes
 1.2.5	AA	Audio Description (Prerecorded)	 Passes
 1.3.1	A	Info and Relationships	 Does not pass
 1.3.2	A	Meaningful Sequence	 Does not pass
 1.3.3	A	Sensory Characteristics	 Passes
 1.3.4	AA	Orientation	 Does not pass
 1.3.5	AA	Identify Input Purpose	 Passes
 1.4.1	A	Use of Color	 Does not pass
 1.4.2	A	Audio Control	 Does not pass
 1.4.3	AA	Contrast (Minimum)	 Does not pass
 1.4.4	AA	Resize text	 Does not pass
 1.4.5	AA	Images of Text	 Passes
 1.4.10	AA	Reflow	 Passes

Success Criterion	Level	Title	Result
 1.4.11	AA	Non-text Contrast	 Does not pass
 1.4.12	AA	Text Spacing	 Passes
 1.4.13	AA	Content on Hover or Focus	 Passes
 2.1.1	A	Keyboard	 Does not pass
 2.1.2	A	No Keyboard Trap	 Passes
 2.1.4	A	Character Key Shortcuts	 Passes
 2.2.1	A	Timing Adjustable	 Does not pass
 2.2.2	A	Pause, Stop, Hide	 Passes
 2.3.1	A	Three Flashes or Below Threshold	 Passes
 2.4.3	A	Focus Order	 Does not pass
 2.4.4	A	Link Purpose (In Context)	 Passes
 2.4.6	AA	Headings and Labels	 Passes
 2.4.7	AA	Focus Visible	 Passes
 2.5.1	A	Pointer Gestures	 Passes
 2.5.2	A	Pointer Cancellation	 Passes
 2.5.3	A	Label in Name	 Passes
 2.5.4	A	Motion Actuation	 Passes
 3.1.1	AA	Language of Page	 Passes
 3.2.1	A	On Focus	 Passes
 3.2.2	A	On Input	 Passes


Success Criterion	Level	Title	Result
 3.3.1	A	Error Identification	 Passes
 3.3.2	A	Labels or Instructions	 Passes
 3.3.3	AA	Error Suggestion	 Does not pass
 3.3.4	AA	Error Prevention (Legal, Financial, Data)	 Passes
</> 4.1.1	A	Parsing	 Passes
 4.1.2	A	Name, Role, Value	 Does not pass
 4.1.3	AA	Status Messages	 Does not pass

The following pages contain an explanation of each Success Criterion and an overview of the findings.

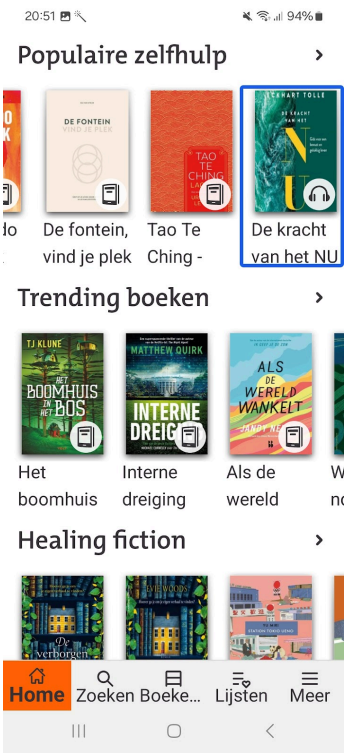



# Succes Criterion 1.1.1 - Non-text Content

Ensure that alternative text is available for all non-text content. This includes images, icons and graphs. Describe the meaning of this content. Blind people use their screen reader to read out this description. Alternative text can also be useful for anyone who is unsure about the meaning of non-text content.

 Does not pass


[Solution for Success Criterion 1.1.1](#)


Nr	Screen	Problem	Screenshot
1	Home	<p>The meaningful non-text content does not have a label. Ensure that all meaningful non-text content has a label that accurately conveys its purpose to users of assistive technologies.</p> <p>On the image of the book the author is clearly visible. This important information is not added to the label of the button.</p>	


Nr	Screen	Problem	Screenshot
2	Onboarding	<p>The meaningful non-text content does not have a label. Ensure that all meaningful non-text content has a label that accurately conveys its purpose to users of assistive technologies.</p> <p>It is about the logo. It is a meaningful image. Add a label and make sure it can be focussed by the screen reader.</p>	 <p>The screenshot shows a mobile application interface for 'de Bibliotheek online'. At the top, the status bar shows the time 08:43 and battery level at 83%. The main content area features the library's logo, which consists of the text 'de Bibliotheek' in black and 'online' in orange, accompanied by an orange circular icon with a white book symbol. Below the logo is a prominent orange button labeled 'INLOGGEN'. At the bottom of the screen, a navigation bar is visible with a hamburger menu icon on the left, a dark grey button labeled 'Over' in the center, and a back arrow icon on the right. A blue selection box highlights the 'Over' menu item, and a white tooltip with the text 'Over' and a right-pointing arrow is displayed above it. Another menu item, 'Toegankelijkheidscertifica', is partially visible below 'Over'.</p>

## **Success Criterion 1.2.1 - Audio-only and Video-only (Prerecorded)**

Ensure a transcript is provided when information is only conveyed by audio or images. With podcasts, the information is conveyed only through audio. People who are deaf cannot hear what is being said. In animation films, the information is often only conveyed through images. People who are blind cannot see the images.

 Does not pass


[Solution for Success Criterion 1.2.1](#) 

Nr	Screen	Problem	Screenshot
3	Audio player	The prerecorded audio-only content lacks a text alternative that provides equivalent information. Ensure a text alternative, such as a transcript, is available to convey all important information as text.	



## **Success Criterion 1.2.2 - Captions (Pre-recorded)**

Ensure captions are provided for all videos with sound. People who are hard of hearing, deaf or deafblind depend on captions to understand what is being said. Captions are also useful for anyone who is temporarily unable to perceive sound, for example inside a quiet zone.


 Passes

[Additional information about Success Criterion 1.2.2](#)



## **Success Criterion 1.2.3 - Audio Description or Media Alternative (Prerecorded)**

Ensure a transcript or audio description is provided for videos where you can't hear what is displayed. The content can then be read in case of a transcript, or heard in case of audio description.


 Passes

[Additional information about Success Criterion 1.2.3](#)



## **Success Criterion 1.2.4 - Captions (Live)**


Ensure real-time captions are available for all live videos with audio. This allows people who need subtitles to directly access the spoken information.


 Passes

[Additional information about Success Criterion 1.2.4](#)

## AD))) **Success Criterion 1.2.5 - Audio Description (Prerecorded)**

Ensure audio description is available when important information is shown which you cannot hear. This can be done by offering an extra audio track. This allows people who are blind or have difficulty processing visual information to also understand the content.

 Passes

[Additional information about Success Criterion 1.2.5](#) 

## ☰ Succes Criterion 1.3.1 - Info and Relationships

Ensure that the information and relationships on the screen are not just conveyed visually.

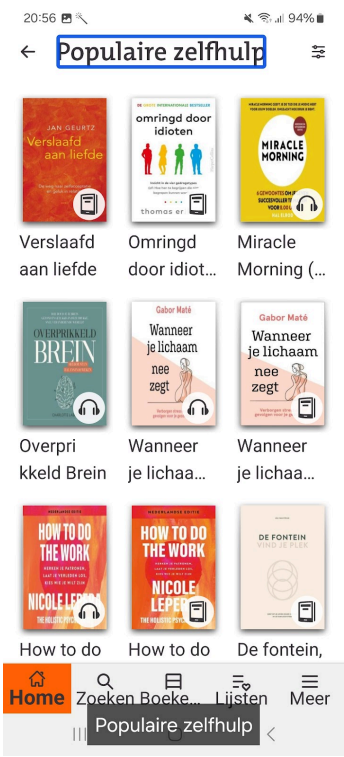
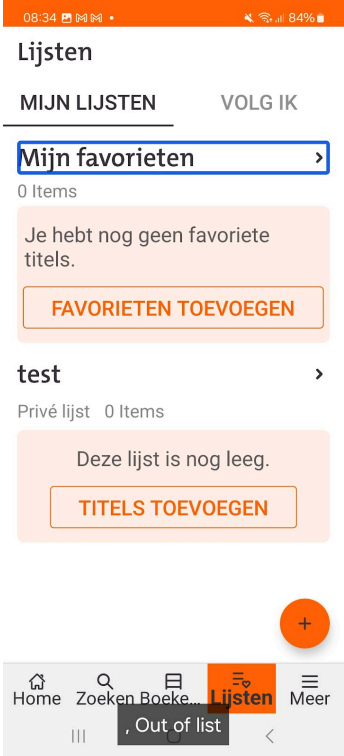
Information on the screen must be conveyed to assistive technologies. For example, make sure that headings are not only bold, but also marked as headings in the code.

Relationships on the screen must be indicated to assistive technologies. Elements in a list must be navigable one by one. Elements in a table must be navigable by rows and columns.

✗ Does not pass

[Solution for Success Criterion 1.3.1](#)

Nr	Screen	Problem	Screenshot
4	Home	<p>The heading text is not marked up as a heading. Simply making text bold or larger does not communicate its role to assistive technologies. Ensure headings are marked up properly so assistive technologies can identify them and convey the content structure accurately.</p> <p>It is about the heading "Populaire zelfhulp".</p>	


Nr	Screen	Problem	Screenshot
5	Populaire Zelfhulp	<p>The heading text is not marked up as a heading. Simply making text bold or larger does not communicate its role to assistive technologies. Ensure headings are marked up properly so assistive technologies can identify them and convey the content structure accurately.</p> <p>It is about the heading "Populaire zelfhulp".</p>	 <p>The screenshot shows a mobile application interface with a search bar at the top containing the text "Populaire zelfhulp". Below the search bar, there is a grid of audiobook covers. The covers include titles like "Verslaafd aan liefde", "Omringd door idioten", "Miracle Morning", "Overprikkeld Brein", "Wanneer je lichaam nee zegt", "How to do the work", and "De fontein". The bottom navigation bar includes icons for Home, Zoeken Boeke..., Lijsten, and Meer. The current page is titled "Populaire zelfhulp".</p>
6	Lijsten	<p>The heading text is not marked up as a heading. Simply making text bold or larger does not communicate its role to assistive technologies. Ensure headings are marked up properly so assistive technologies can identify them and convey the content structure accurately.</p> <p>It is about the button/heading "Mijn Favorieten". Also the heading "Lijsten" is not marked as heading.</p>	 <p>The screenshot shows a mobile application interface for a "Lijsten" (Lists) section. At the top, there is a header "Lijsten" and two sub-headers: "MIJN LIJSTEN" and "VOLG IK". Below "MIJN LIJSTEN", there is a button labeled "Mijn favorieten" with a right-pointing arrow. Underneath, it says "0 Items" and "Je hebt nog geen favoriete titels." There is a button "FAVORIETEN TOEVOEGEN". Below this, there is a section for "test" with a right-pointing arrow, showing "Privé lijst 0 Items" and a button "TITELS TOEVOEGEN". At the bottom right, there is a red circular button with a white plus sign. The bottom navigation bar includes icons for Home, Zoeken Boeke..., Lijsten, and Meer. The current page is titled "Lijsten".</p>

## 🔗 Success Criterion 1.3.2 - Meaningful Sequence

Ensure that the order which assistive technologies follow accurately reflects the meaning of the content. Elements that belong together must be presented together. Otherwise, users may misunderstand the content.

✗ Does not pass


[Solution for Success Criterion 1.3.2](#)


Nr	Screen	Problem	Screenshot
7	Audio player	<p>The content on the screen is not presented in a meaningful order. Elements that belong together must be presented together. Otherwise, users may misunderstand the content. Ensure that the content follows a meaningful order so that assistive technologies can convey related elements in the correct sequence.</p> <p>The focus moves from the back-button, to the "Dichtbij" Button to the title under the image. Only after this the title at the top of the screen receives focus.</p> <p>Also other elements are not in a logical order.</p>	



## **Success Criterion 1.3.3 - Sensory Characteristics**

Ensure instructions can be understood by everyone. Instructions that use only shape, size, location, orientation or audio are not understandable for everyone. For example, people who are blind cannot see shapes. Combine multiple properties to allow everyone to understand instructions.

 Passes

[Additional information about Success Criterion 1.3.3](#) 



## Succes Criterion 1.3.4 - Orientation

Ensure that content on the screen rotates with the orientation of the device. All screens of an app must be usable in all orientations. Users in wheelchairs sometimes have their device mounted in a fixed position. More words fit on the screen in landscape mode, useful for users with a larger font size.

✗ Does not pass


Solution for Success Criterion 1.3.4


Nr	Screen	Problem	Screenshot
8	Home	The content on the screen is restricted to portrait orientation. Ensure that the content rotates with the orientation of the device.	

## **Success Criterion 1.3.5 - Identify Input**

### **Purpose**

Ensure it is clear what information is expected from users inside input fields. Set the correct input type to allow auto-completion, e.g. for e-mail addresses. This is faster for everyone and reduces errors for users with disabilities.

 Passes

[Additional information about Success Criterion 1.3.5](#) 

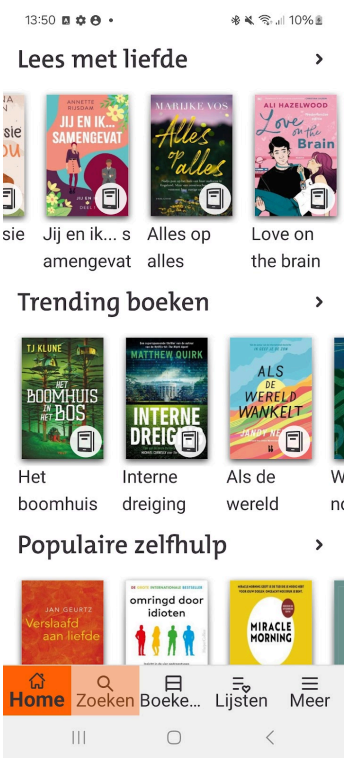



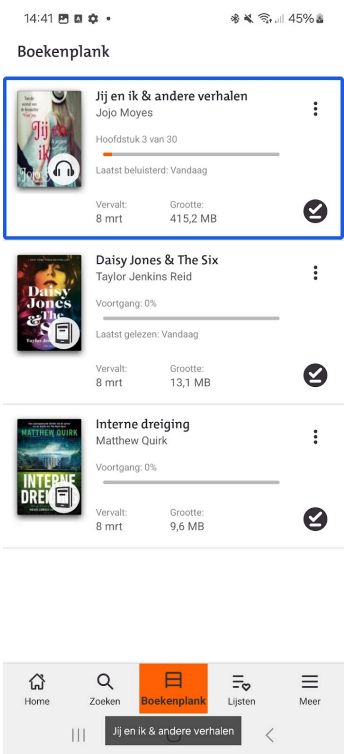
# Succes Criterion 1.4.1 - Use of Color

Ensure color is not the only way information is conveyed. Not everyone can perceive color. For example, include shape in your instructions, such as a green check mark or red cross. And inside a legend of a map, use numbers in addition to color, to allow people who are color blind to find what they are looking for.

Does not pass


## Solution for Success Criterion 1.4.1 [↗](#)

Nr	Screen	Problem	Screenshot
9	Home	<p>The focus-indicator is indicated by color alone, with insufficient contrast between the focused and unfocused states (less than 3:1). This prevents users who cannot perceive color differences, such as those with color blindness, from identifying the focused element. Ensure that focus indication does not rely solely on color. Add additional visual cues, such as a visible focus indicator, to make the focused state clearly distinguishable for all users.</p> <p>It is about most elements. The contrast of the focus indicator does not have enough contrast.</p>	 <p>The screenshot shows a mobile application interface for books. At the top, there's a status bar with the time 13:50 and battery level 10%. Below that, a section titled 'Lees met liefde' features three book covers: 'Jij en ik... s amengevat', 'Alles op alles', and 'Love on the brain'. Each cover has a small white focus indicator (a rounded rectangle) on it. Below this is a 'Trending boeken' section with three more book covers: 'Het boomhuis', 'Interne dreiging', and 'Als de wereld wankelt'. At the bottom is a 'Populaire zelfhulp' section with three book covers: 'Verslaafd aan liefde', 'omringd door idioten', and 'MIRACLE MORNING'. The bottom navigation bar has icons for Home, Zoeken, Boeke..., Lijsten, and Meer. The focus indicator on the 'Home' icon is highlighted with a white border.</p>


Nr	Screen	Problem	Screenshot
10	Waardering en recensies	<p>The color of the element is the only cue used to convey information. This can prevent users who cannot perceive color from understanding the content or functionality. Ensure that color is not the sole cue by adding additional visual indicators, such as line, shapes or patterns.</p> <p>The selected and unselected stars are only indicated in colour.</p>	
11	Boekenplank	<p>The color of the element is the only cue used to convey information. This can prevent users who cannot perceive color from understanding the content or functionality. Ensure that color is not the sole cue by adding additional visual indicators, such as line, shapes or patterns.</p> <p>The progress of the progress bar is only indicated in colour.</p>	

## **Success Criterion 1.4.2 - Audio Control**

Ensure that audio which lasts longer than three seconds can be paused or stopped. This is important for people who have difficulty concentrating. In addition, the screen reader is difficult to use when other audio is playing.

 Does not pass

[Solution for Success Criterion 1.4.2](#)

Nr	Screen	Problem	Screenshot
12	Audio player	<p>On this screen, the sound plays automatically and lasts longer than 3 seconds. Provide a control near the beginning of the screen to turn the sound off.</p> <p>Make sure the audio is not automatically played.</p>	

## ☼ Succes Criterion 1.4.3 - Contrast (Minimum)

Ensure that the contrast ratio between the text color and background color is at least 4.5:1. For bold and large text, a contrast ratio of 3:1 is sufficient. By maintaining these ratios, visually impaired and color blind users can usually read the text well. In addition, this makes an app easier for everyone to use, for example outside in the sun.

✗ Does not pass

[Solution for Success Criterion 1.4.3](#)

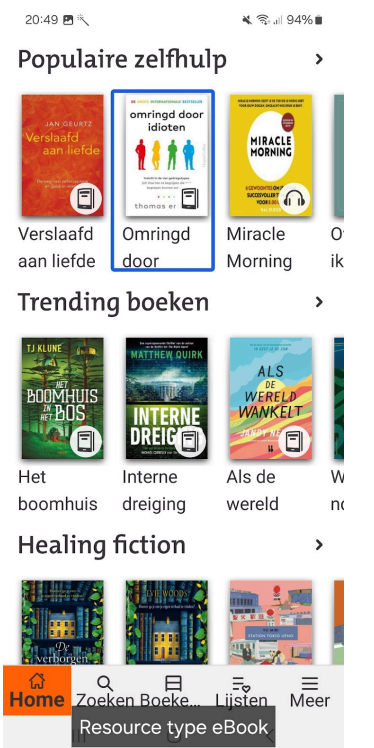
Nr	Screen	Problem	Screenshot
13	Populaire Zelfhulp	<p>The contrast ratio between normal text and its background is too low. Text smaller than 18pt (24px) in regular font weight or 14pt (18.66px) in bold font is considered normal text. Ensure that all normal text has a contrast ratio of at least 4,5:1 against its background</p> <p>The grey text "eBook" and "13" both have a contrast of around 3:1. It appears to us that the numbers are not bold or large text and thus should have a contrast value of 4,5:1.</p>	


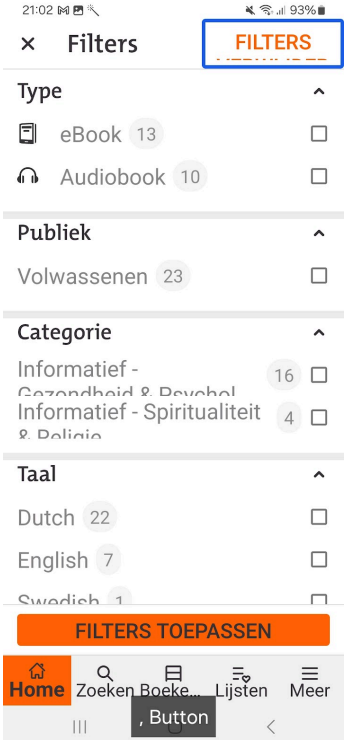
## AA Succes Criterion 1.4.4 - Resize text

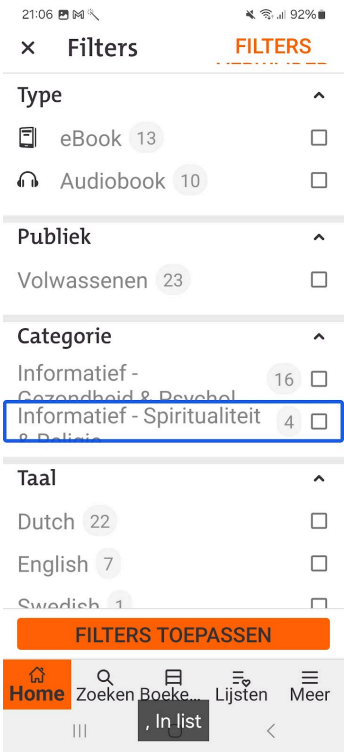
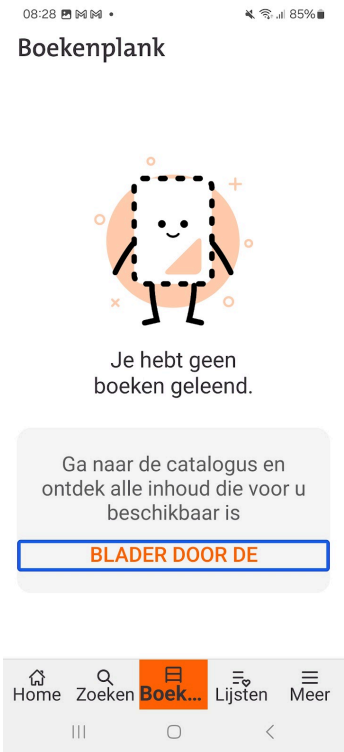
Ensure that text can scale. Users set their preferred font size in the system settings. This is especially important for visually impaired users because they might not be able to read the text otherwise. In addition, scaled text may not be truncated, overlap other text or become unreachable.



✗ Does not pass

Solution for Success Criterion 1.4.4

Nr	Screen	Problem	Screenshot
14	Home	<p>The text(s) on this screen become hidden, disappears, or extends outside its container when the text is scaled to 200%. This results in characters being cut off or partially visible. Ensure that all text remains fully visible and accessible when users increase their text size.</p> <p>It is about the title of the book "Omringd door ..".</p>	 <p>The screenshot shows a mobile application interface for books. At the top, the time is 20:49 and battery is at 94%. There are three main sections: 'Populaire zelfhulp', 'Trending boeken', and 'Healing fiction'. In the 'Populaire zelfhulp' section, the book 'Omringd door idioten' by Thomas er is highlighted with a blue box. The text 'Omringd door' is partially cut off on the left side of the book cover. In the 'Trending boeken' section, the book 'Het boomhuis' is visible. In the 'Healing fiction' section, there are three book covers. At the bottom, there is a navigation bar with icons for Home, Zoeken Boeke..., Lijsten, and Meer. A tooltip 'Resource type eBook' is visible over the 'Meer' icon.</p>

Nr	Screen	Problem	Screenshot
15	Home	<p>The text(s) on this screen become hidden, disappears, or extends outside its container when the text is scaled to 200%. This results in characters being cut off or partially visible. Ensure that all text remains fully visible and accessible when users increase their text size.</p> <p>It is about the title "Nieuw in de collecti...".</p>	 <p>The screenshot shows a mobile app interface with a top status bar at 20:53 and 94% battery. Below are three rows of book covers. The first row includes 'Ariadne at Home', 'AutoWeek 2025_01', and 'Classics'. The second row includes 'De furie', 'Je mag ook niets meer zeggen', and 'De hackers die'. The third row includes 'IK ZIE JE OVER', 'LAATSTE LUSTE MABEL BEAUMONT', and 'TOUCH DARKNESS'. A blue box highlights the title 'Nieuw in de collecti...' which is partially cut off. The bottom navigation bar includes 'Home', 'Zoeken Boeke...', 'Lijsten', and 'Meer'.</p>
16	Populaire Zelfhulp	<p>The text(s) on this screen become hidden, disappears, or extends outside its container when the text is scaled to 200%. This results in characters being cut off or partially visible. Ensure that all text remains fully visible and accessible when users increase their text size.</p> <p>It is about the button "Filters ...".</p>	 <p>The screenshot shows a mobile app interface with a top status bar at 21:02 and 93% battery. The screen displays a 'Filters' section with a blue box highlighting the 'FILTERS' button. Below are several filter categories: 'Type' (eBook 13, Audiobook 10), 'Publiek' (Volwassenen 23), 'Categorie' (Informatief - Gezondheid &amp; Psychol 16, Informatief - Spiritualiteit &amp; Religie 4), and 'Taal' (Dutch 22, English 7, Swedish 1). An orange button labeled 'FILTERS TOEPASSEN' is at the bottom. The bottom navigation bar includes 'Home', 'Zoeken Boeke...', 'Lijsten', and 'Meer'.</p>


Nr	Screen	Problem	Screenshot
17	Populaire Zelfhulp	<p>The text(s) on this screen become hidden, disappears, or extends outside its container when the text is scaled to 200%. This results in characters being cut off or partially visible. Ensure that all text remains fully visible and accessible when users increase their text size.</p> <p>It is about the text "Informatief ...".</p>	
18	Boeken	<p>The text(s) on this screen become hidden, disappears, or extends outside its container when the text is scaled to 200%. This results in characters being cut off or partially visible. Ensure that all text remains fully visible and accessible when users increase their text size.</p> <p>It is about the button "Blader door ...".</p>	


Nr	Screen	Problem	Screenshot
19	Audio player	<p>The text(s) on this screen become hidden, disappears, or extends outside its container when the text is scaled to 200%. This results in characters being cut off or partially visible. Ensure that all text remains fully visible and accessible when users increase their text size.</p> <p>The text of the title of the screen and the numbers that indicate the set timer are not completely visible.</p>	
20	Audio player	<p>The text(s) on this screen does not scale when the text is scaled to 200%. Make sure all text remains readable when scaled.</p> <p>The numbers "10" are not scaling.</p>	



## Success Criterion 1.4.5 - Images of Text

Ensure images are not used to display text. Text in an image often scales to a limited extent or not at all. Use plain text to allow the text to scale based on the user's preferences.


 Passes


[Additional information about Success Criterion 1.4.5](#) 



## Success Criterion 1.4.10 - Reflow

Ensure content can be reached without having to scroll in two directions at the same time. This can cause users to lose their orientation on the screen. Providing horizontally and vertically scrollable content on one screen is permitted, but the content may only scroll in one direction at a time.


 Passes

[Additional information about Success Criterion 1.4.10](#) 

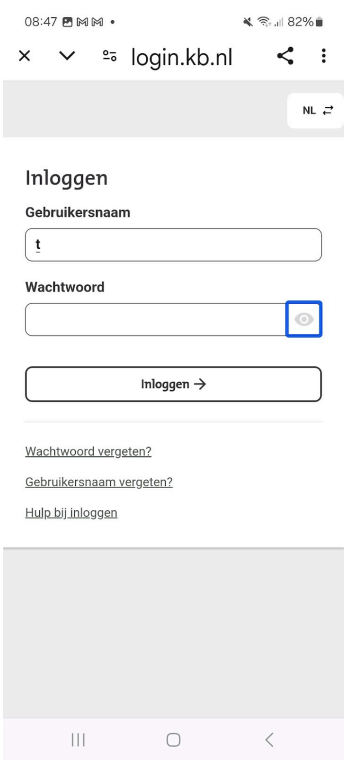



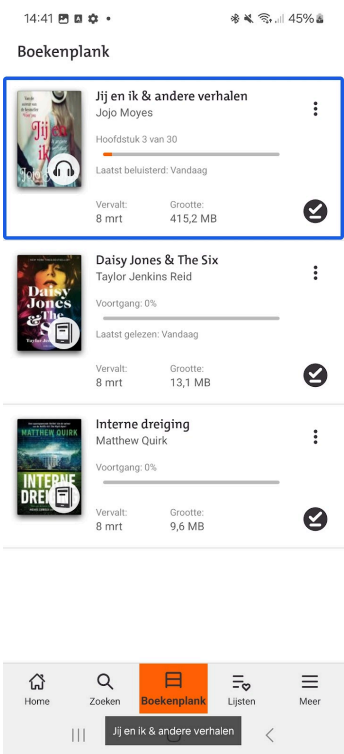
## Succes Criterion 1.4.11 - Non-text Contrast

Ensure that content on the screen has a contrast ratio of at least 3:1. This includes graphical elements such as icons, input fields and the focus indicator. Also ensure that selected elements are clearly recognizable. Visually impaired and color blind users need to be able to distinguish content. This makes apps easier to use for everyone, for example outside in the sun.

 Does not pass

[Solution for Success Criterion 1.4.11](#)


Nr	Screen	Problem	Screenshot
21	Log-in	<p>The contrast of interface elements on this screen is less than 3.0:1. Ensure that all interface elements meet the minimum contrast requirement of 3.0:1.</p> <p>Note: This requirement does not apply if the appearance of the interface component is determined by the operating system and has not been modified during development.</p> <p>It is about the button "Wachtwoord laten zien".</p>	


Nr	Screen	Problem	Screenshot
22	Waardering en recensies	<p>The contrast of interface elements on this screen is less than 3.0:1. Ensure that all interface elements meet the minimum contrast requirement of 3.0:1.</p> <p>Note: This requirement does not apply if the appearance of the interface component is determined by the operating system and has not been modified during development.</p> <p>The contrast of the stars are 1.14:1 with their background.</p>	
23	Boekenplank	<p>The contrast of interface elements on this screen is less than 3.0:1. Ensure that all interface elements meet the minimum contrast requirement of 3.0:1.</p> <p>Note: This requirement does not apply if the appearance of the interface component is determined by the operating system and has not been modified during development.</p> <p>The progress bar indicator (the right side gray part) has a contrast of 1.87:1.</p>	



## **Success Criterion 1.4.12 - Text Spacing**

Ensure there is enough space between paragraphs, letters and words. People with dyslexia can read faster as a result. People who are visually impaired can also read the text more easily. White space can also help people with a cognitive impairment to distinguish parts from each other.

 Passes


[Additional information about Success Criterion 1.4.12](#) 




## **Success Criterion 1.4.13 - Content on**

### **Hover or Focus**

Ensure that content shown after hover or focus can be hidden. Content must remain visible until the reason for the hover or focus disappears. In addition, users need to be able to dismiss the content.


 Passes

[Additional information about Success Criterion 1.4.13](#) 

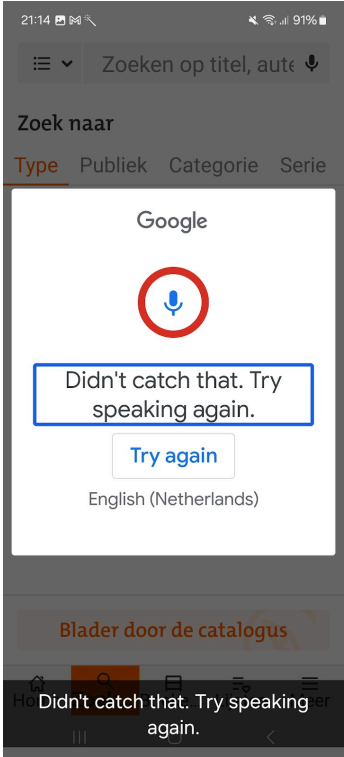


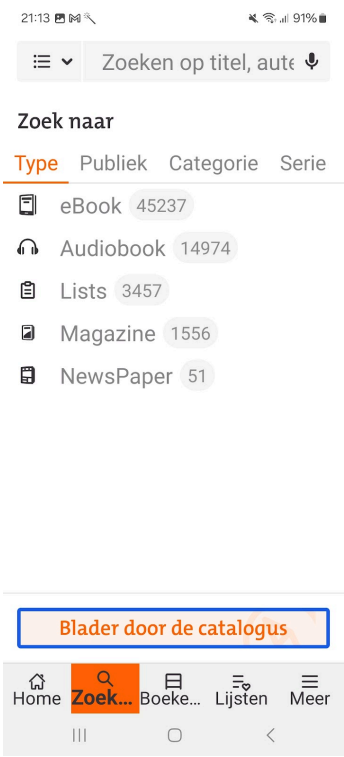

## Succes Criterion 2.1.1 - Keyboard

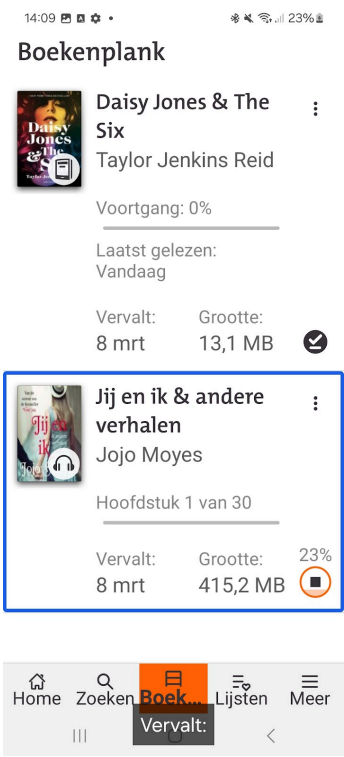

Ensure that all functionality in an app can be used via the keyboard interface. This includes external keyboard, screen reader, switch control and voice control. Visually impaired people use a screen reader. People with a motor disability use switch control and voice control.

 Does not pass

[Solution for Success Criterion 2.1.1](#)

Nr	Screen	Problem	Screenshot
24	Zoeken	<p>The screen/parts of the screen cannot be operated with a screen reader. Make sure that all functionality is available using a screen reader.</p> <p>Focus does not go to "Google" or "English (Netherlands)".</p>	

Nr	Screen	Problem	Screenshot
25	Zoeken	<p>The screen/parts of the screen cannot be operated with a screen reader. Make sure that all functionality is available using a screen reader.</p> <p>With the screen reader it is not possible to go to the element that looks like a list-icon, the heading "Zoek naar" and the tabs with their underlying content.</p>	
26	eBook	<p>The screen/parts of the screen cannot be operated with a screen reader. Make sure that all functionality is available using a screen reader.</p> <p>The focus does not go to the book. As a result, no textual description of the cover is available.</p>	


Nr	Screen	Problem	Screenshot
27	Boekenplank	<p>The screen/parts of the screen cannot be operated with a screen reader. Make sure that all functionality is available using a screen reader.</p> <p>It is not possible to reach the "Stop downloading" button with the screen reader.</p>	 <p>14:09 23%</p> <p><b>Boekenplank</b></p> <p><b>Daisy Jones &amp; The Six</b> Taylor Jenkins Reid Voortgang: 0% Laatst gelezen: Vandaag Vervalt: 8 mrt Grootte: 13,1 MB</p> <p><b>Jij en ik &amp; andere verhalen</b> Jojo Moyes Hoofdstuk 1 van 30 Vervalt: 8 mrt Grootte: 415,2 MB</p> <p>Home Zoeken Boeken Lijsten Meer</p> <p>Vervalt: &lt;</p>
28	Waardering en recensies	<p>The screen/parts of the screen cannot be operated with an (external) keyboard. Make sure that all functionality is available using a keyboard interface.</p> <p>It is not possible with the external keyboard to add stars.</p>	 <p>× <b>Waardering en recensie</b></p> <p>Je waardering</p> <p>Jouw recensie</p> <p>Schrijf hier je recensie</p> <p><input type="checkbox"/> Ik vind het goed dat mijn gebruikers-ID en profielfoto te zien zijn bij mijn reactie.</p> <p>    ○ &lt;</p>



## Success Criterion 2.1.2 - No Keyboard

### Trap

Ensure users of the keyboard interface do not get stuck. Users might not be able to close pop-ups, menus and overlays. Many assistive technologies do not support clicking next to an element. You must include a close button which assistive technologies can activate.

 Passes


[Additional information about Success Criterion 2.1.2](#)




## Success Criterion 2.1.4 - Character Key

### Shortcuts

Ensure that shortcuts cannot be accidentally activated when using assistive technologies. Many assistive technologies emulate keystrokes to perform actions. Users might accidentally activate shortcuts. Make it possible to change or disable shortcuts.


 Passes

[Additional information about Success Criterion 2.1.4](#) 




## Succes Criterion 2.2.1 - Timing Adjustable

Ensure everyone has enough time to complete tasks. People with disabilities might need more time to navigate through a screen. Operating an app with assistive technologies is often slower compared to touch. People with learning disabilities, dyslexia and cognitive impairments might also need more time. If there are time limits, users need to be able to adjust the time limit. It's best to avoid time limits.

 Does not pass

[Solution for Success Criterion 2.2.1](#)


Nr	Screen	Problem	Screenshot
29	Pop-up	<p>Content in the app is presented with a time limit and disappears after a few seconds. Users cannot pause or extend the display time. This may cause users to miss important information, especially those with cognitive or sensory impairments. Ensure all time-limited content can be paused, stopped, or extended.</p> <p>The whole screen disappears after a few seconds.</p>	



## **Success Criterion 2.2.2 - Pause, Stop,**

### **Hide**

Ensure it is possible to pause, stop or hide moving elements on the screen. Users may have difficulty using apps with moving elements. For example, flashing content makes it harder for people with attention disorders to stay focused.

 Passes


[Additional information about Success Criterion 2.2.2](#)



## **Success Criterion 2.3.1 - Three Flashes**

### **or Below Threshold**

Ensure no more than three flashes per second are shown anywhere in the app. This can cause an epileptic seizure. Trigger warnings are often missed, especially by people who cannot read, such as children.

 Passes

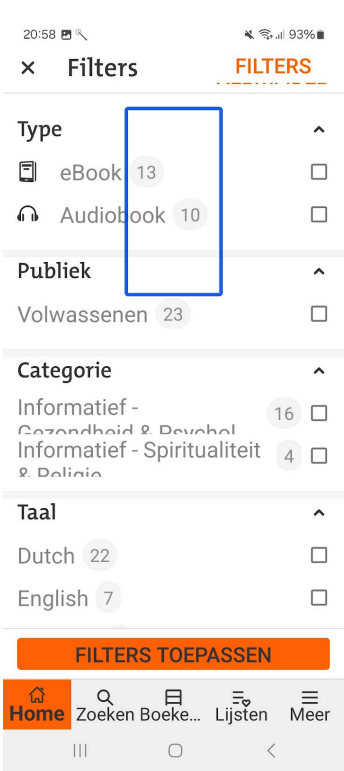
[Additional information about Success Criterion 2.3.1](#)


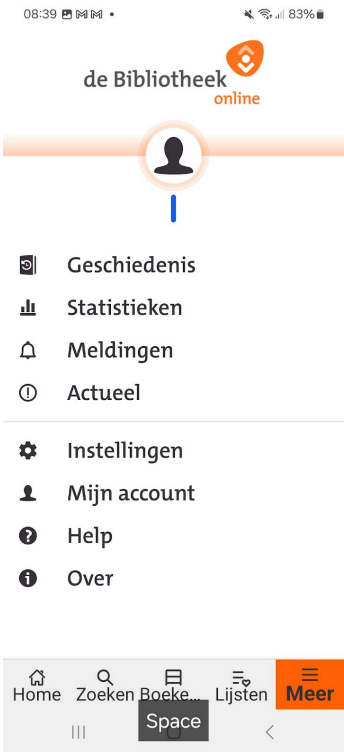
## 🔗 Succes Criterion 2.4.3 - Focus Order

Ensure assistive technologies use a logical focus order when navigating. The order of navigating a screen is usually from left to right, from top to bottom. Make sure assistive technologies use an equivalent focus order.

✘ Does not pass


[Solution for Success Criterion 2.4.3 ↗](#)

Nr	Screen	Problem	Screenshot
30	Populaire Zelfhulp	<p>When navigating within modals (iOS) / dialogs (Android), the focus can be moved to the underlying screen. This disrupts the logical navigation sequence and can confuse users. Ensure that the focus remains within the modal/dialogs until it is closed to maintain a predictable and accessible navigation flow.</p> <p>The focus remains on the screen "Populaire Zelfhulp" but visually the filter screen is shown.</p>	

Nr	Screen	Problem	Screenshot
31	Zoeken	<p>The focus does not move directly to the next visible element with each swipe in a sequential navigation. Ensure that focus moves directly to the next visible element on each swipe, skipping any hidden or invisible elements, to maintain a logical and meaningful navigation order.</p> <p>Now an invisible element named "Blader door de ..." receives focus.</p>	
32	Meer	<p>The focus does not move directly to the next visible element with each swipe in a sequential navigation. Ensure that focus moves directly to the next visible element on each swipe, skipping any hidden or invisible elements, to maintain a logical and meaningful navigation order.</p> <p>Focus goes to an invisible element named "Space".</p>	

## **Success Criterion 2.4.4 - Link Purpose (In Context)**

Ensure the purpose of each link is clear. Users can request a list of links. The link and its surrounding text should indicate where you will navigate to. Clear links are useful for everyone and especially for users of assistive technologies users.

 Passes


[Additional information about Success Criterion 2.4.4](#)

## **Success Criterion 2.4.6 - Headings and Labels**

Ensure headings and labels are descriptive.

Descriptive headings are important to understand how the content is constructed. Blind users can navigate through headings using a screen reader.


Descriptive labels help users identify content. Voice control users speak the labels to perform actions.

 Passes

[Additional information about Success Criterion 2.4.6](#)

## **Success Criterion 2.4.7 - Focus Visible**

Ensure that elements focused by assistive technologies are clearly indicated. App developers might not be able to adjust the color of the frame. However, it is possible to give elements a different background color when they have focus.


 Passes

[Additional information about Success Criterion 2.4.7](#)



## **Success Criterion 2.5.1 - Pointer Gestures**

Ensure users can operate the interface with one finger using simple gestures. Not everyone is able to pinch-to-zoom or trace a certain path. Provide an alternative, such as a button, that allows the user to perform the same action.


 Passes

[Additional information about Success Criterion 2.5.1](#)



## **Success Criterion 2.5.2 - Pointer Cancellation**

Ensure it is possible to cancel touches. Buttons should only activate by clicking and not by touching. This gives the user the option to cancel the activation.

 Passes

[Additional information about Success Criterion 2.5.2](#)



## **Success Criterion 2.5.3 - Label in Name**

Ensure that the technical name of operable elements includes the visual name. A user should be able to activate a button with the text 'Log in' via this name. This is not possible if the technical name is different. In addition, it is confusing for screen reader users if they hear a different name compared to what is shown on the screen.


 Passes

[Additional information about Success Criterion 2.5.3](#)



## **Success Criterion 2.5.4 - Motion Actuation**

Ensure an alternative is provided for motion-triggered actions and make it possible to disable them. Users with limited hand function might not be able to shake their device. On the other hand, users with spasms might accidentally trigger actions.


 Passes

[Additional information about Success Criterion 2.5.4](#)



## **Success Criterion 3.1.1 - Language of Page**

Ensure the language of the app is set. Some assistive technologies read the text shown on the screen. The pronunciation of the words depends on the selected language. An incorrect or missing language causes unclear pronunciation.


 Passes

[Additional information about Success Criterion 3.1.1](#)



## **Success Criterion 3.2.1 - On Focus**

Ensure it is predictable what happens when users move to an element. When an element receives focus, it should not be activated unexpectedly. Predictable focus behavior makes it easier for people with disabilities to use your app.


 Passes

[Additional information about Success Criterion 3.2.1](#)



## Success Criterion 3.2.2 - On Input

Ensure it is predictable what happens when entering data. If the focus is automatically moved upon input, this must be indicated in advance. Avoid this behavior for input fields and checkboxes, among others. Unexpected actions can particularly confuse users with visual or cognitive impairments.


 Passes

[Additional information about Success Criterion 3.2.2](#)



## Success Criterion 3.3.1 - Error Identification

Ensure users receive a clear error message after entering incorrect data. Clearly indicate which entry is incorrect and why. It is important that error messages are also clear to users of assistive technologies. Therefore, also indicate errors in text to allow everyone to perceive them.


 Passes

[Additional information about Success Criterion 3.3.1](#)



## Success Criterion 3.3.2 - Labels or Instructions

Ensure clear instructions are provided when asking users to input data. Add a label to input fields, for example 'First name'. Mark whether fields are required or optional. Indicate if data must be entered in a specific format, such as dates and phone numbers. Clear instructions help all users, especially users with cognitive disabilities.


 Passes


[Additional information about Success Criterion 3.3.2](#)




## Succes Criterion 3.3.3 - Error Suggestion

Ensure users are provided with suggestions to correct errors. For example, if a date is entered incorrectly, indicate in which format the day, month and year are expected. The format is yyyy-mm-dd for the order year, month, day. In particular, users with cognitive disabilities benefit from clear suggestions.

 Does not pass


[Solution for Success Criterion 3.3.3](#) 


Nr	Screen	Problem	Screenshot
33	Log-in	<p>The error message does not provide any suggestion on how to correct the input error. Make sure to give users specific guidance or instructions that help them understand how to fix the mistake, enabling them to complete the task successfully.</p> <p>It is about the error message " Je gebruikersnaam ...". Add that users should fill in the input fields.</p>	



## **Success Criterion 3.3.4 - Error Prevention (Legal, Financial, Data)**


Ensure users submit data intentionally. Allows users to undo, correct, or confirm a submission. Provide at least one of these options for submissions that result in a legal obligation, financial transaction, or loss of data. We recommend offering these options for other types of submission as well.


 Passes

[Additional information about Success Criterion 3.3.4](#) 

## **</> Success Criterion 4.1.1 - Parsing**

Ensure the source code of the app does not contain any errors and does not use any deprecated functions. Assistive technologies may not behave as expected when code does not conform to modern standards.

 Passes

[Additional information about Success Criterion 4.1.1](#) 

## **Success Criterion 4.1.2 - Name, Role, Value**


Ensure a correct name, role and value is set for all interactive elements.

The name helps users to identify elements. The screen reader speaks the name and voice control uses the name for actions.

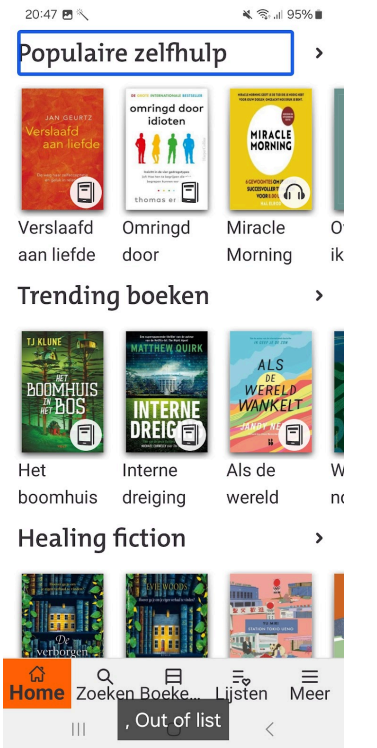
The role lets users know what to expect. The role "button" indicates which action takes place upon activation.

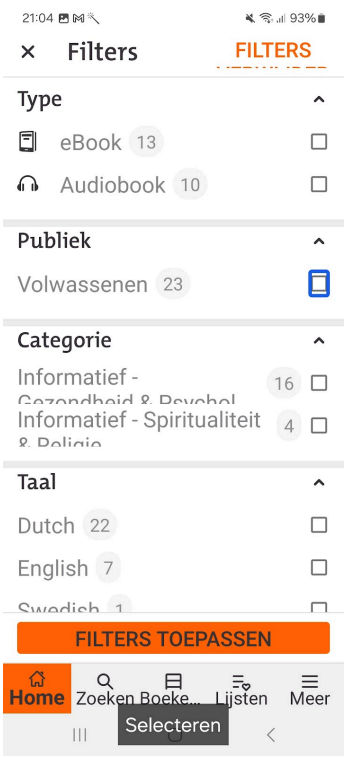
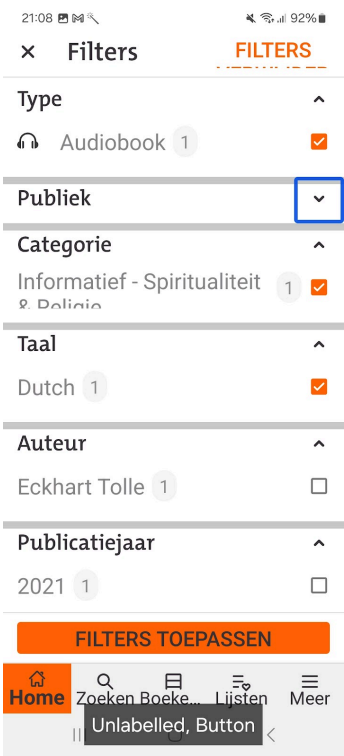
The value informs the user. This includes the state (disabled), properties (selected) and values (50%).

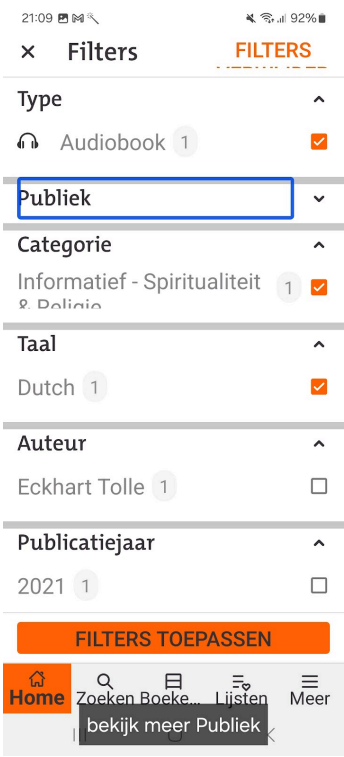
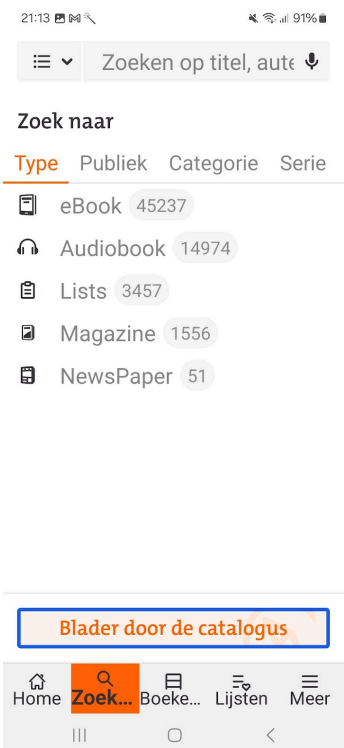
For example, give a tab the name "Home", the role "tab", the property "selected" and the value "1 of 4".



 Does not pass


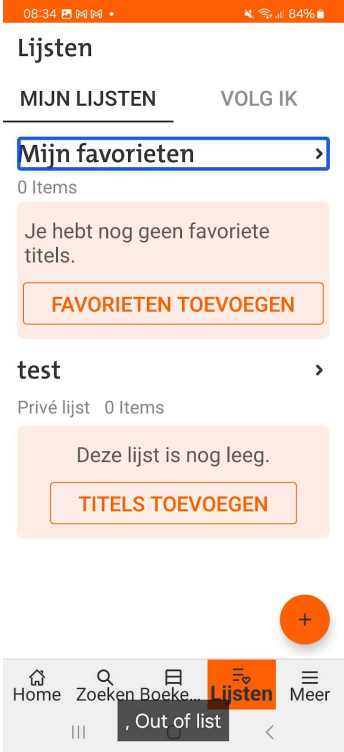
[Solution for Success Criterion 4.1.2](#)

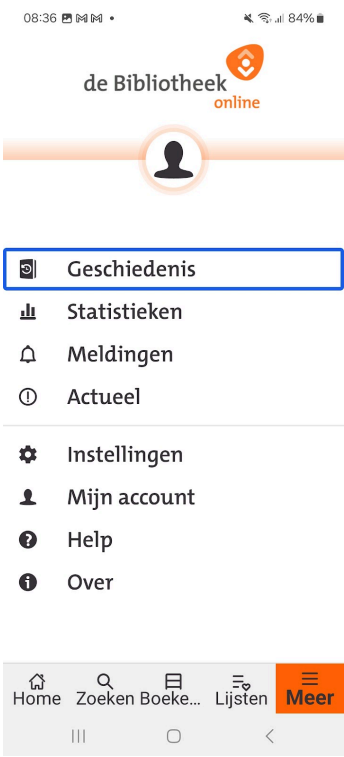
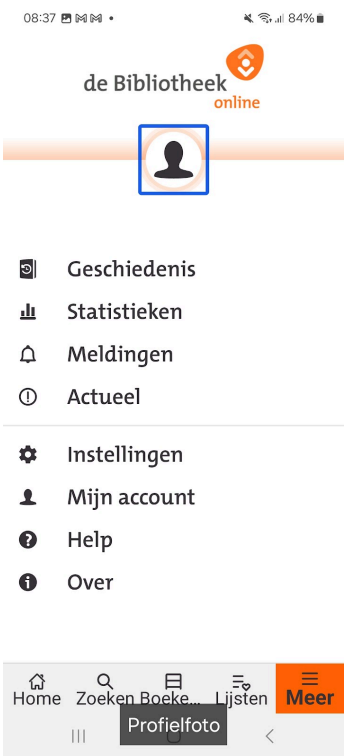
Nr	Screen	Problem	Screenshot
34	Home	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about the button "Populaire zelfhulp".</p>	


Nr	Screen	Problem	Screenshot
35	Populaire Zelfhulp	<p>The interactive element is missing an accessible name. Without an accessible name, assistive technologies cannot inform users about the element's function or purpose, making it difficult for users to understand how to interact with the element. Ensure an appropriate accessible name is provided to describe the element accurately.</p> <p>It is about all tick boxes. They are not connected to the label. Groep both elements and let the screen reader read them out at once.</p>	
36	Populaire Zelfhulp	<p>The interactive element is missing an accessible name. Without an accessible name, assistive technologies cannot inform users about the element's function or purpose, making it difficult for users to understand how to interact with the element. Ensure an appropriate accessible name is provided to describe the element accurately.</p> <p>It is about the button that unfolds "Publiek".</p>	


Nr	Screen	Problem	Screenshot
37	Populaire Zelfhulp	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about the button "Publiek".</p>	
38	Zoeken	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about the button "Blader door ...".</p>	

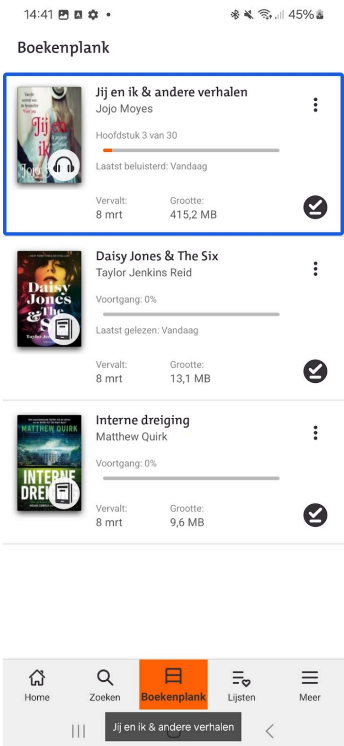
Nr	Screen	Problem	Screenshot
39	Zoeken	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>"Tettest" is a button.</p>	 <p>08:23 86%</p> <p>← Zoeken op titel, auteur. 🗣️</p> <p>Recente zoekopdrachten:</p> <ul style="list-style-type: none"> <li>🔍 tettest ✕</li> <li>🔍 testest ✕</li> <li>🔍 ye ✕</li> <li>🔍 te ✕</li> </ul> <p>VERWIJDER RECENTE</p> <p>Home Zoek... Boeke... Lijsten Meer</p> <p>    tettest &lt;</p>
40	Zoeken	<p>The interactive element is missing an accessible name. Without an accessible name, assistive technologies cannot inform users about the element's function or purpose, making it difficult for users to understand how to interact with the element. Ensure an appropriate accessible name is provided to describe the element accurately.</p> <p>It is about the "Delete tettest button"</p>	 <p>08:24 86%</p> <p>← Zoeken op titel, auteur. 🗣️</p> <p>Recente zoekopdrachten:</p> <ul style="list-style-type: none"> <li>🔍 tettest ☒</li> <li>🔍 testest ✕</li> <li>🔍 ye ✕</li> <li>🔍 te ✕</li> </ul> <p>VERWIJDER RECENTE</p> <p>Home Zoek... Boeke... Lijsten Meer</p> <p>    Unlabelled, Button &lt;</p>

Nr	Screen	Problem	Screenshot
41	Zoeken	<p>The interactive element has an incorrect accessible name. If the accessible name does not accurately describe the element's function or purpose, assistive technologies may provide unclear or misleading information, confusing users. Ensure the element's accessible name correctly reflects its function to help users interact with it effectively.</p> <p>In the accessible name the search icon is not represented. "Search Tetest" would be describing the function of the button better.</p>	
42	Lijsten	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about the button/heading "Mijn Favorieten".</p>	

Nr	Screen	Problem	Screenshot
43	Meer	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about all buttons on the screen.</p>	 <p>08:36 84%</p> <p>de Bibliotheek online</p> <p>Geschiedenis</p> <p>Statistieken</p> <p>Meldingen</p> <p>Actueel</p> <p>Instellingen</p> <p>Mijn account</p> <p>Help</p> <p>Over</p> <p>Home Zoeken Boeke... Lijsten Meer</p>
44	Meer	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about the button "Profiel".</p>	 <p>08:37 84%</p> <p>de Bibliotheek online</p> <p>Geschiedenis</p> <p>Statistieken</p> <p>Meldingen</p> <p>Actueel</p> <p>Instellingen</p> <p>Mijn account</p> <p>Help</p> <p>Over</p> <p>Home Zoeken Boeke... Lijsten Meer</p> <p>Profielfoto</p>

Nr	Screen	Problem	Screenshot
45	Onboarding	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about the button "Over".</p>	


Nr	Screen	Problem	Screenshot
46	eBook	<p>The interactive element is missing a programmatically determinable value. A value refers to the content or data associated with an element (e.g., the text entered in a text field, the selected option in a dropdown menu, or the current position of a slider). Without a defined value, assistive technologies cannot communicate the element's content or setting, making it difficult for users to understand or interact with the element effectively. Ensure all interactive elements with changeable values have a programmatically defined value.</p> <p>The Button "Favoriete" that behaves like a switch should have correct value. Either it is On or Off.</p> <p>An alternative is to make the buttons name in the selected or unselected states "Mark as favorite" and "Unmark as favorite".</p>	

Nr	Screen	Problem	Screenshot
47	Boekenplank	<p>The interactive element has an incorrectly defined value. If the value does not accurately reflect the current content or setting of the element (e.g., a dropdown announces the wrong selection or a slider announces the wrong position), assistive technologies will convey incorrect information to users. This can lead to confusion and hinder effective interaction. Ensure all interactive elements with changeable values accurately announce their current value.</p> <p>The progress bar indicator is not read by the screen reader.</p>	





## Succes Criterion 4.1.3 - Status Messages

Ensure that status messages are also passed to assistive technologies. A blind user cannot see new information appear on the screen. This includes error messages during input or loss of internet connection.

 Does not pass

[Solution for Success Criterion 4.1.3](#)

Nr	Screen	Problem	Screenshot
48	Zoeken	<p>The status message on the screen is not announced by assistive technologies. It may inform users about the outcome of their actions or the current state of the app. If not announced, users relying on assistive technologies will be unaware of important updates. Status messages must be communicated to users without automatically receiving focus.</p> <p>It is about the error message "Je zoekopdracht ..".</p>	 <p>08:19 87%</p> <p>ye</p> <p>Je zoekopdracht leverde geen resultaten op. Probeer het nog eens.</p> <p>Home Zoek... Boeke... Lijsten Meer</p>

Nr	Screen	Problem	Screenshot
49	Audio player	<p>The status message on the screen is not announced by assistive technologies. It may inform users about the outcome of their actions or the current state of the app. If not announced, users relying on assistive technologies will be unaware of important updates. Status messages must be communicated to users without automatically receiving focus.</p> <p>New information is shown after clicking the next chapter. Make sure important new information is announced.</p>	

## 4. Recommendations

To comply with the standard, the app needs to be improved on the following points:



### **Success Criterion 1.1.1 - Non-text Content**

Ensure that alternative text is available for all non-text content. This includes images, icons and graphs. Describe the meaning of this content. Blind people use their screen reader to read out this description. Alternative text can also be useful for anyone who is unsure about the meaning of non-text content.

- [Solution for Success Criterion 1.1.1](#)
- [Definition of Success Criterion 1.1.1](#)
- [Explanation of Success Criterion 1.1.1](#)



### **Success Criterion 1.2.1 - Audio-only and Video-only (Prerecorded)**

Ensure a transcript is provided when information is only conveyed by audio or images. With podcasts, the information is conveyed only through audio. People who are deaf cannot hear what is being said. In animation films, the information is often only conveyed through images. People who are blind cannot see the images.

- [Solution for Success Criterion 1.2.1](#)
- [Definition of Success Criterion 1.2.1](#)
- [Explanation of Success Criterion 1.2.1](#)

## **Success Criterion 1.3.1 - Info and Relationships**

Ensure that the information and relationships on the screen are not just conveyed visually.

Information on the screen must be conveyed to assistive technologies. For example, make sure that headings are not only bold, but also marked as headings in the code.

Relationships on the screen must be indicated to assistive technologies. Elements in a list must be navigable one by one. Elements in a table must be navigable by rows and columns.

- [Solution for Success Criterion 1.3.1](#)
- [Definition of Success Criterion 1.3.1](#)
- [Explanation of Success Criterion 1.3.1](#)

## **Success Criterion 1.3.2 - Meaningful Sequence**

Ensure that the order which assistive technologies follow accurately reflects the meaning of the content. Elements that belong together must be presented together. Otherwise, users may misunderstand the content.

- [Solution for Success Criterion 1.3.2](#)
- [Definition of Success Criterion 1.3.2](#)
- [Explanation of Success Criterion 1.3.2](#)

## **Success Criterion 1.3.4 - Orientation**

Ensure that content on the screen rotates with the orientation of the device. All screens of an app must be usable in all orientations. Users in wheelchairs sometimes have their device mounted in a fixed position. More words fit on the screen in landscape mode, useful for users with a larger font size.

- [Solution for Success Criterion 1.3.4](#)
- [Definition of Success Criterion 1.3.4](#)
- [Explanation of Success Criterion 1.3.4](#)



## **Success Criterion 1.4.1 - Use of Color**

Ensure color is not the only way information is conveyed. Not everyone can perceive color. For example, include shape in your instructions, such as a green check mark or red cross. And inside a legend of a map, use numbers in addition to color, to allow people who are color blind to find what they are looking for.

- [Solution for Success Criterion 1.4.1](#)
- [Definition of Success Criterion 1.4.1](#)
- [Explanation of Success Criterion 1.4.1](#)



## **Success Criterion 1.4.2 - Audio Control**

Ensure that audio which lasts longer than three seconds can be paused or stopped. This is important for people who have difficulty concentrating. In addition, the screen reader is difficult to use when other audio is playing.

- [Solution for Success Criterion 1.4.2](#)
- [Definition of Success Criterion 1.4.2](#)
- [Explanation of Success Criterion 1.4.2](#)






## **Success Criterion 1.4.3 - Contrast (Minimum)**

Ensure that the contrast ratio between the text color and background color is at least 4.5:1. For bold and large text, a contrast ratio of 3:1 is sufficient. By maintaining these ratios, visually impaired and color blind users can usually read the text well. In addition, this makes an app easier for everyone to use, for example outside in the sun.

- [Solution for Success Criterion 1.4.3](#)
- [Definition of Success Criterion 1.4.3](#)
- [Explanation of Success Criterion 1.4.3](#)




## **Success Criterion 1.4.4 - Resize text**

Ensure that text can scale. Users set their preferred font size in the system settings. This is especially important for visually impaired users because they might not be able to read the text otherwise. In addition, scaled text may not be truncated, overlap other text or become unreachable.

- [Solution for Success Criterion 1.4.4](#) 
- [Definition of Success Criterion 1.4.4](#) 
- [Explanation of Success Criterion 1.4.4](#) 




## **Success Criterion 1.4.11 - Non-text Contrast**

Ensure that content on the screen has a contrast ratio of at least 3:1. This includes graphical elements such as icons, input fields and the focus indicator. Also ensure that selected elements are clearly recognizable. Visually impaired and color blind users need to be able to distinguish content. This makes apps easier to use for everyone, for example outside in the sun.

- [Solution for Success Criterion 1.4.11](#) 
- [Definition of Success Criterion 1.4.11](#) 
- [Explanation of Success Criterion 1.4.11](#) 

## **Success Criterion 2.1.1 - Keyboard**

Ensure that all functionality in an app can be used via the keyboard interface. This includes external keyboard, screen reader, switch control and voice control. Visually impaired people use a screen reader. People with a motor disability use switch control and voice control.

- [Solution for Success Criterion 2.1.1](#) 
- [Definition of Success Criterion 2.1.1](#) 
- [Explanation of Success Criterion 2.1.1](#) 



## **Success Criterion 2.2.1 - Timing Adjustable**

Ensure everyone has enough time to complete tasks. People with disabilities might need more time to navigate through a screen. Operating an app with assistive technologies is often slower compared to touch. People with learning disabilities, dyslexia and cognitive impairments might also need more time. If there are time limits, users need to be able to adjust the time limit. It's best to avoid time limits.

- [Solution for Success Criterion 2.2.1](#)
- [Definition of Success Criterion 2.2.1](#)
- [Explanation of Success Criterion 2.2.1](#)



## **Success Criterion 2.4.3 - Focus Order**

Ensure assistive technologies use a logical focus order when navigating. The order of navigating a screen is usually from left to right, from top to bottom. Make sure assistive technologies use an equivalent focus order.

- [Solution for Success Criterion 2.4.3](#)
- [Definition of Success Criterion 2.4.3](#)
- [Explanation of Success Criterion 2.4.3](#)



## **Success Criterion 3.3.3 - Error Suggestion**

Ensure users are provided with suggestions to correct errors. For example, if a date is entered incorrectly, indicate in which format the day, month and year are expected. The format is yyyy-mm-dd for the order year, month, day. In particular, users with cognitive disabilities benefit from clear suggestions.

- [Solution for Success Criterion 3.3.3](#)
- [Definition of Success Criterion 3.3.3](#)
- [Explanation of Success Criterion 3.3.3](#)

## **Success Criterion 4.1.2 - Name, Role, Value**




Ensure a correct name, role and value is set for all interactive elements.

The name helps users to identify elements. The screen reader speaks the name and voice control uses the name for actions.

The role lets users know what to expect. The role "button" indicates which action takes place upon activation.




The value informs the user. This includes the state (disabled), properties (selected) and values (50%).

For example, give a tab the name "Home", the role "tab", the property "selected" and the value "1 of 4".

- [Solution for Success Criterion 4.1.2](#) 
- [Definition of Success Criterion 4.1.2](#) 
- [Explanation of Success Criterion 4.1.2](#) 

## **Success Criterion 4.1.3 - Status Messages**

Ensure that status messages are also passed to assistive technologies. A blind user cannot see new information appear on the screen. This includes error messages during input or loss of internet connection.

- [Solution for Success Criterion 4.1.3](#) 
- [Definition of Success Criterion 4.1.3](#) 
- [Explanation of Success Criterion 4.1.3](#) 

# Appendix A: Findings per screen

In total we made 49 findings on 13 screens.



*Overview of the findings per screen*

<b>Nr</b>	<b>Screen</b>	<b>Amount of findings</b>
1	Pop-up	1
2	Home	7
3	Populaire Zelfhulp	8
4	Zoeken	8
5	Boeken	1
6	Lijsten	2
7	Meer	3
8	Onboarding	2
9	Log-in	2
10	eBook	2
11	Boekenplank	4
12	Waardering en recensies	3
13	Audio player	6
<b>Total</b>		<b>49</b>

The following pages list all the findings per screen.


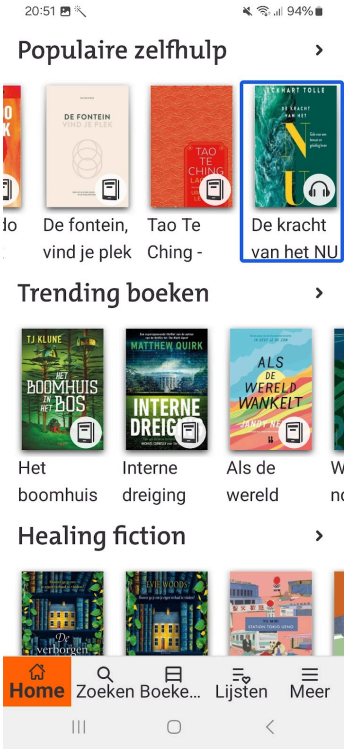

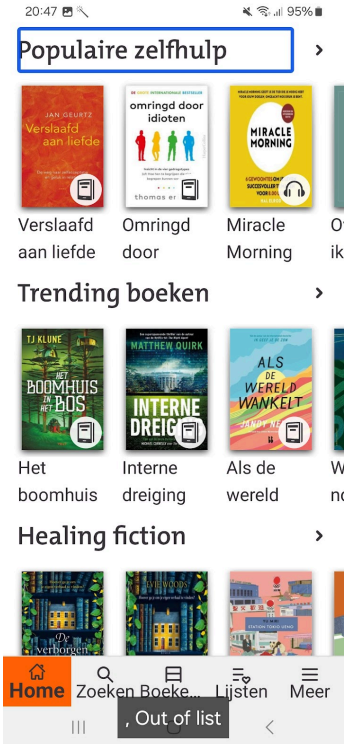
# 1. Pop-up



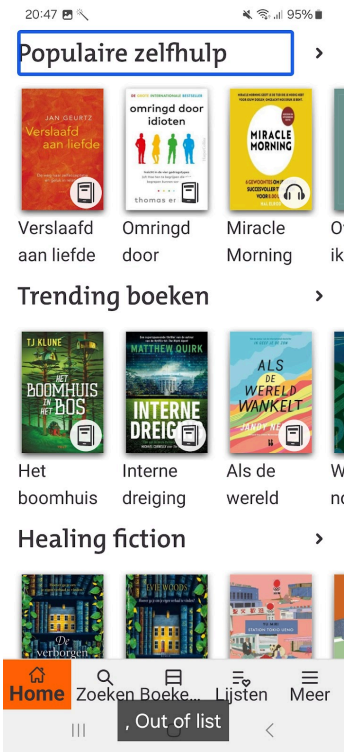


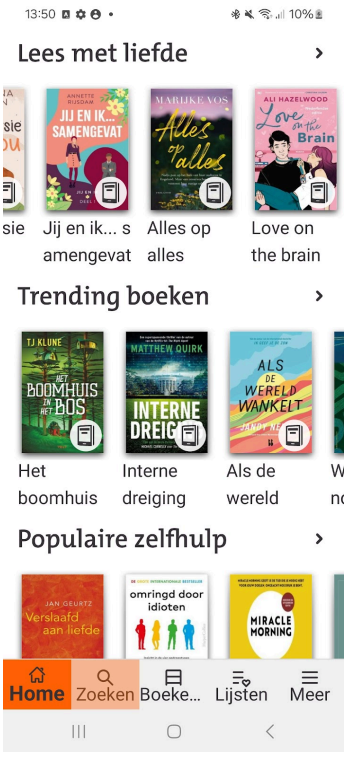
We detected 1 findings on this screen.

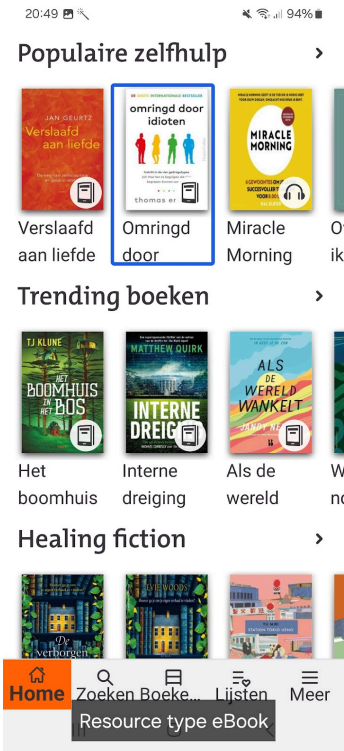

Nr	Success Criterion	Problem	Screenshot
29	 <a href="#">2.2.1</a> Timing Adjustable	<p>Content in the app is presented with a time limit and disappears after a few seconds. Users cannot pause or extend the display time. This may cause users to miss important information, especially those with cognitive or sensory impairments. Ensure all time-limited content can be paused, stopped, or extended.</p> <p>The whole screen disappears after a few seconds.</p>	


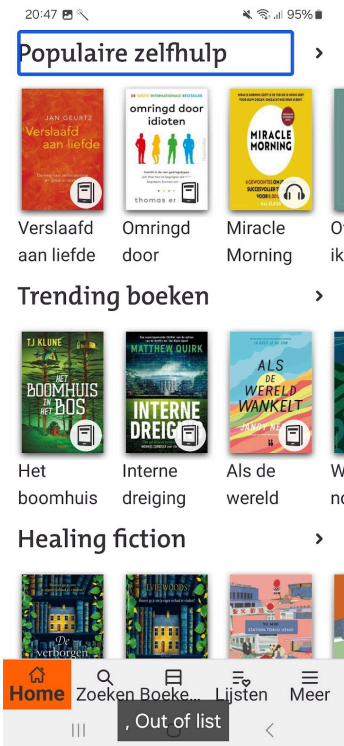
## 2. Home

We detected 7 findings on this screen.

Nr	Success Criterion	Problem	Screenshot
1	<p> <a href="#">1.1.1</a> Non-text Content</p>	<p>The meaningful non-text content does not have a label. Ensure that all meaningful non-text content has a label that accurately conveys its purpose to users of assistive technologies.</p> <p>On the image of the book the author is clearly visible. This important information is not added to the label of the button.</p>	
4	<p> <a href="#">1.3.1</a> Info and Relationships</p>	<p>The heading text is not marked up as a heading. Simply making text bold or larger does not communicate its role to assistive technologies. Ensure headings are marked up properly so assistive technologies can identify them and convey the content structure accurately.</p> <p>It is about the heading "Populaire zelfhulp".</p>	


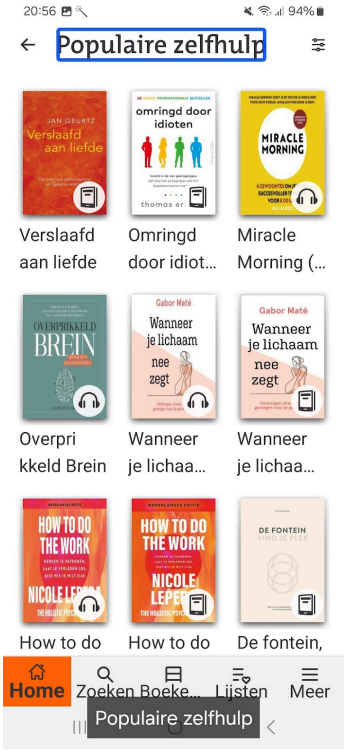

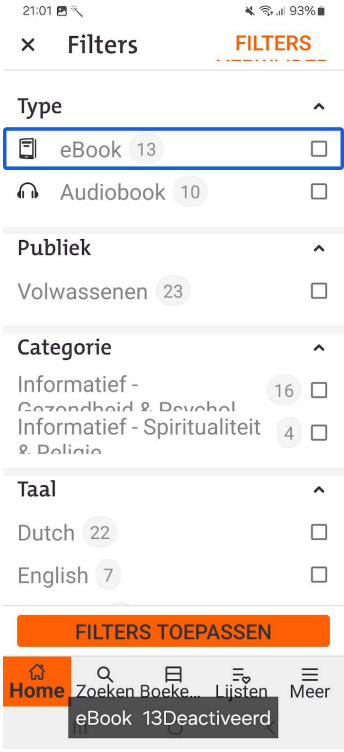
Nr	Success Criterion	Problem	Screenshot
8	<p> <a href="#">1.3.4</a> </p> <p>Orientation</p>	<p>The content on the screen is restricted to portrait orientation. Ensure that the content rotates with the orientation of the device.</p>	
9	<p> <a href="#">1.4.1</a> </p> <p>Use of Color</p>	<p>The focus-indicator is indicated by color alone, with insufficient contrast between the focused and unfocused states (less than 3:1). This prevents users who cannot perceive color differences, such as those with color blindness, from identifying the focused element. Ensure that focus indication does not rely solely on color. Add additional visual cues, such as a visible focus indicator, to make the focused state clearly distinguishable for all users.</p> <p>It is about most elements. The contrast of the focus indicator does not have enough contrast.</p>	

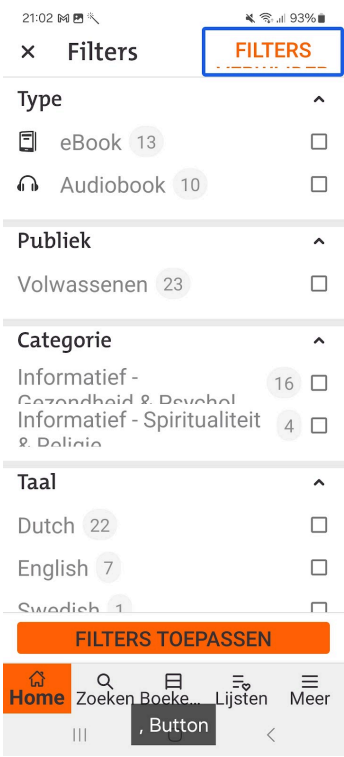
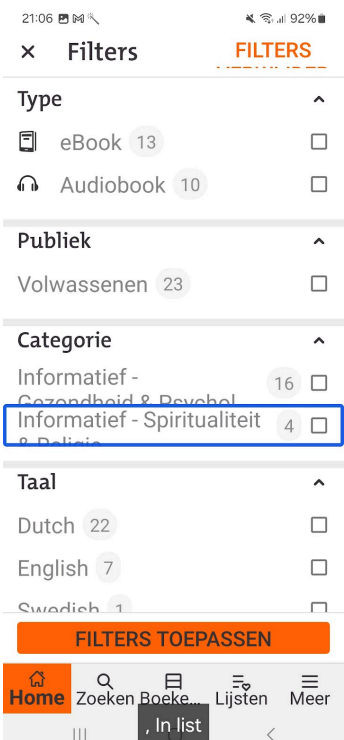
Nr	Success Criterion	Problem	Screenshot
14	<p>AA 1.4.4 <a href="#">↗</a>            Resize text</p>	<p>The text(s) on this screen become hidden, disappears, or extends outside its container when the text is scaled to 200%. This results in characters being cut off or partially visible. Ensure that all text remains fully visible and accessible when users increase their text size.</p> <p>It is about the title of the book "Omringd door ..".</p>	 <p>20:49 94%</p> <p>Populaire zelfhulp &gt;</p> <p>Verslaafd aan liefde Omringd door Miracle Morning</p> <p>Trending boeken &gt;</p> <p>Het boomhuis Interne dreiging Als de wereld wankelt</p> <p>Healing fiction &gt;</p> <p>Home Zoeken Boeke... Lijsten Meer      Resource type eBook</p>
15	<p>AA 1.4.4 <a href="#">↗</a>            Resize text</p>	<p>The text(s) on this screen become hidden, disappears, or extends outside its container when the text is scaled to 200%. This results in characters being cut off or partially visible. Ensure that all text remains fully visible and accessible when users increase their text size.</p> <p>It is about the title "Nieuw in de collecti...".</p>	 <p>20:53 94%</p> <p>Ariadne AutoWeek Classics</p> <p>at Home 2025_01 Classics</p> <p>Nieuw in de collecti... &gt;</p> <p>De furie Je mag ook niets zeggen De hackers die Nederland veranderen</p> <p>Nieuw in de collecti... &gt;</p> <p>IK ZIE JE OVER LAATSTE LUSTE MABEL BEAUMONT TOUCH DARKNESS</p> <p>Home Zoeken Boeke... Lijsten Meer      Nieuw in de collectie   e-books</p>


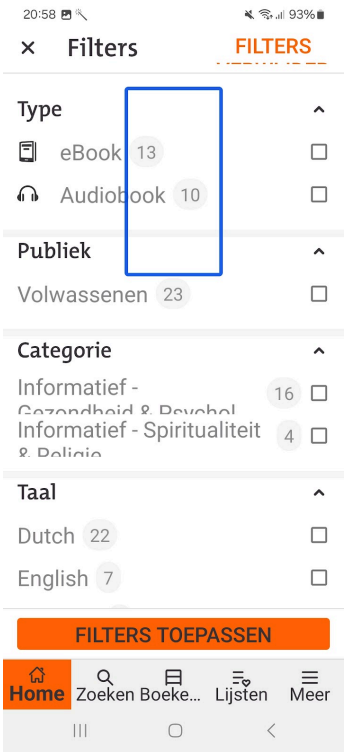

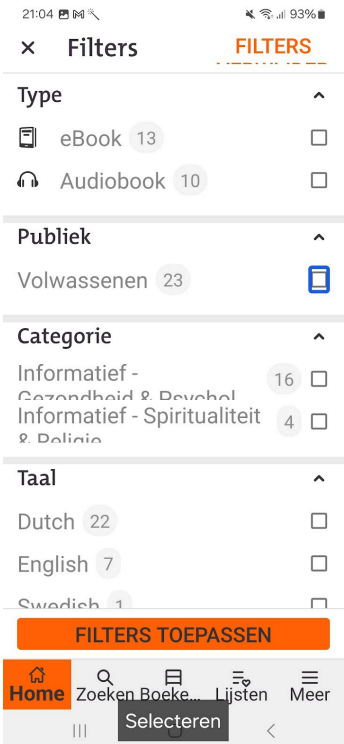
Nr	Success Criterion	Problem	Screenshot
34	<p>4.1.2 </p> <p>Name, Role, Value</p>	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about the button "Populaire zelfhulp".</p>	 <p>The screenshot shows a mobile application interface for a bookstore. At the top, the time is 20:47 and the battery is at 95%. A blue box highlights the button 'Populaire zelfhulp' with a right-pointing arrow. Below this are three book covers: 'Verslaafd aan liefde' by Jan Geurtz, 'Omringd door idioten' by Thomas Er, and 'Miracle Morning' by Rick Warren. The next section is 'Trending boeken' with covers for 'Het boomhuis' by T.J. Klune, 'Interne dreiging' by Matthew Quirk, and 'Als de wereld wankelt' by Lisa Thompson. The final section is 'Healing fiction' with three colorful book covers. At the bottom is a navigation bar with icons for Home, Zoeken Boeke..., Lijsten, and Meer. A dark grey tooltip with the text 'Out of list' is visible over the 'Lijsten' icon.</p>


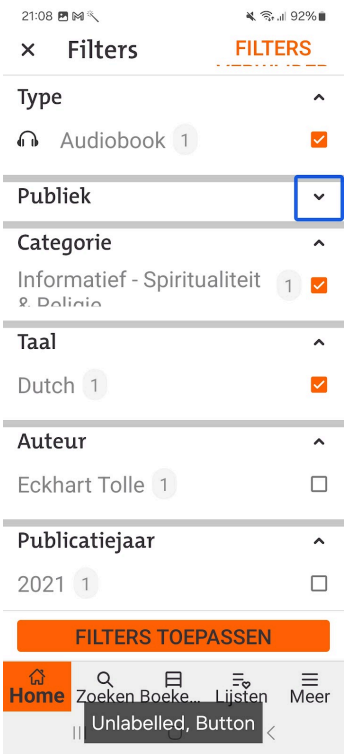

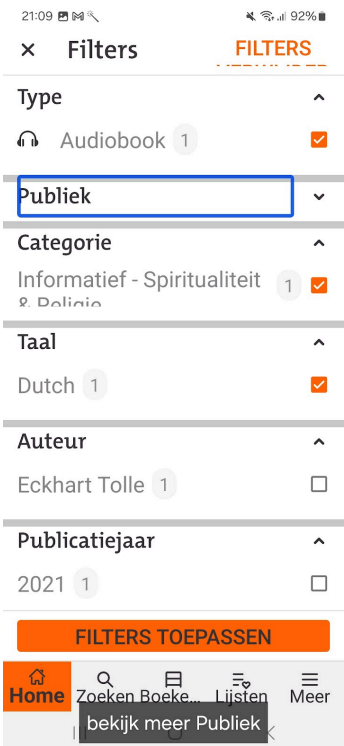
### 3. Populaire Zelfhulp

We detected 8 findings on this screen.

Nr	Success Criterion	Problem	Screenshot
5	<p> <a href="#">1.3.1</a></p> <p>Info and Relationships</p>	<p>The heading text is not marked up as a heading. Simply making text bold or larger does not communicate its role to assistive technologies. Ensure headings are marked up properly so assistive technologies can identify them and convey the content structure accurately.</p> <p>It is about the heading "Populaire zelfhulp".</p>	
13	<p> <a href="#">1.4.3</a></p> <p>Contrast (Minimum)</p>	<p>The contrast ratio between normal text and its background is too low. Text smaller than 18pt (24px) in regular font weight or 14pt (18.66px) in bold font is considered normal text. Ensure that all normal text has a contrast ratio of at least 4,5:1 against its background</p> <p>The grey text "eBook" and "13" both have a contrast of around 3:1. It appears to us that the numbers are not bold or large text and thus should have a contrast value of 4,5:1.</p>	


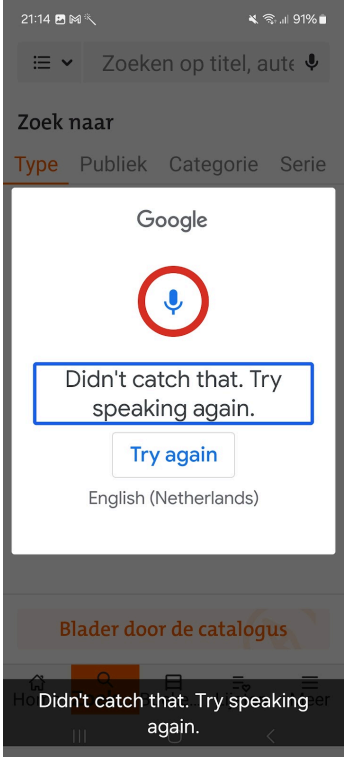

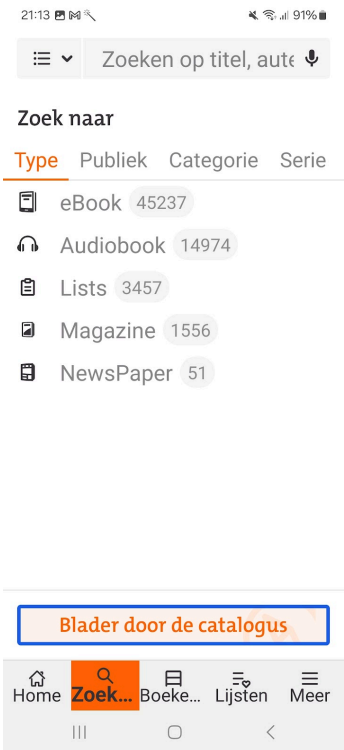
Nr	Success Criterion	Problem	Screenshot
16	AA 1.4.4 <a href="#">↗</a> Resize text	<p>The text(s) on this screen become hidden, disappears, or extends outside its container when the text is scaled to 200%. This results in characters being cut off or partially visible. Ensure that all text remains fully visible and accessible when users increase their text size.</p> <p>It is about the button "Filters ...".</p>	
17	AA 1.4.4 <a href="#">↗</a> Resize text	<p>The text(s) on this screen become hidden, disappears, or extends outside its container when the text is scaled to 200%. This results in characters being cut off or partially visible. Ensure that all text remains fully visible and accessible when users increase their text size.</p> <p>It is about the text "Informatief ...".</p>	




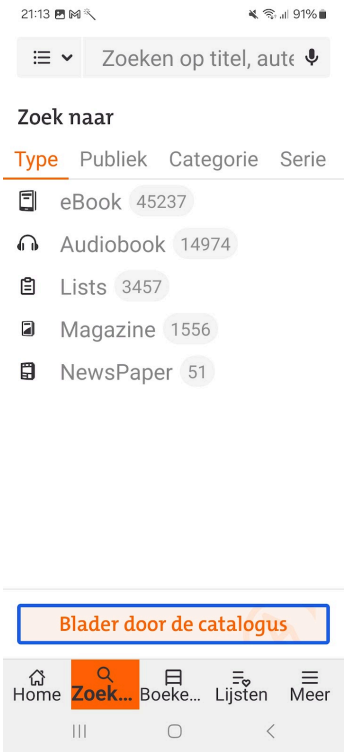
Nr	Success Criterion	Problem	Screenshot
30	<p> <a href="#">2.4.3</a> Focus Order</p>	<p>When navigating within modals (iOS) / dialogs (Android), the focus can be moved to the underlying screen. This disrupts the logical navigation sequence and can confuse users. Ensure that the focus remains within the modal/dialogs until it is closed to maintain a predictable and accessible navigation flow.</p> <p>The focus remains on the screen "Populaire Zelfhulp" but visually the filter screen is shown.</p>	
35	<p> <a href="#">4.1.2</a> Name, Role, Value</p>	<p>The interactive element is missing an accessible name. Without an accessible name, assistive technologies cannot inform users about the element's function or purpose, making it difficult for users to understand how to interact with the element. Ensure an appropriate accessible name is provided to describe the element accurately.</p> <p>It is about all tick boxes. They are not connected to the label. Groep both elements and let the screen reader read them out at once.</p>	





Nr	Success Criterion	Problem	Screenshot
36	 4.1.2 <a href="#">↗</a> Name, Role, Value	<p>The interactive element is missing an accessible name. Without an accessible name, assistive technologies cannot inform users about the element's function or purpose, making it difficult for users to understand how to interact with the element. Ensure an appropriate accessible name is provided to describe the element accurately.</p> <p>It is about the button that unfolds "Publiek".</p>	
37	 4.1.2 <a href="#">↗</a> Name, Role, Value	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about the button "Publiek".</p>	





## 4. Zoeken

We detected 8 findings on this screen.

Nr	Success Criterion	Problem	Screenshot
24	 <a href="#">2.1.1</a> Keyboard	<p>The screen/parts of the screen cannot be operated with a screen reader. Make sure that all functionality is available using a screen reader.</p> <p>Focus does not go to "Google" or "English (Netherlands)".</p>	
25	 <a href="#">2.1.1</a> Keyboard	<p>The screen/parts of the screen cannot be operated with a screen reader. Make sure that all functionality is available using a screen reader.</p> <p>With the screen reader it is not possible to go to the element that looks like a list-icon, the heading "Zoek naar" and the tabs with their underlying content.</p>	


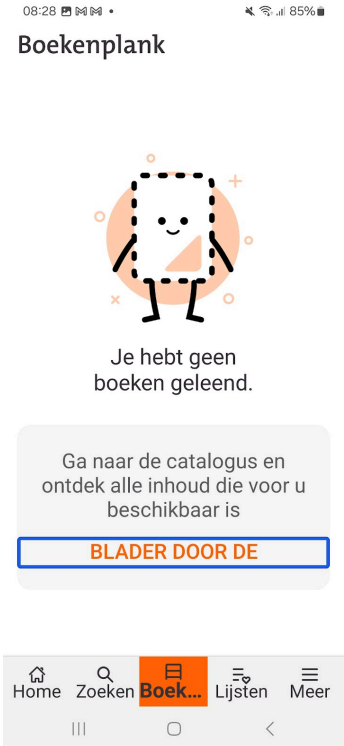
Nr	Success Criterion	Problem	Screenshot
31	 <a href="#">2.4.3</a> Focus Order	<p>The focus does not move directly to the next visible element with each swipe in a sequential navigation. Ensure that focus moves directly to the next visible element on each swipe, skipping any hidden or invisible elements, to maintain a logical and meaningful navigation order.</p> <p>Now an invisible element named "Blader door de ..." receives focus.</p>	
38	 <a href="#">4.1.2</a> Name, Role, Value	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about the button "Blader door ...".</p>	

Nr	Success Criterion	Problem	Screenshot
39	 <a href="#">4.1.2</a> Name, Role, Value	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>"Tettest" is a button.</p>	
40	 <a href="#">4.1.2</a> Name, Role, Value	<p>The interactive element is missing an accessible name. Without an accessible name, assistive technologies cannot inform users about the element's function or purpose, making it difficult for users to understand how to interact with the element. Ensure an appropriate accessible name is provided to describe the element accurately.</p> <p>It is about the "Delete tettest button"</p>	

Nr	Success Criterion	Problem	Screenshot
41	 <a href="#">4.1.2</a> Name, Role, Value	<p>The interactive element has an incorrect accessible name. If the accessible name does not accurately describe the element's function or purpose, assistive technologies may provide unclear or misleading information, confusing users. Ensure the element's accessible name correctly reflects its function to help users interact with it effectively.</p> <p>In the accessible name the search icon is not represented. "Search Tetestest" would be describing the function of the button better.</p>	
48	 <a href="#">4.1.3</a> Status Messages	<p>The status message on the screen is not announced by assistive technologies. It may inform users about the outcome of their actions or the current state of the app. If not announced, users relying on assistive technologies will be unaware of important updates. Status messages must be communicated to users without automatically receiving focus.</p> <p>It is about the error message "Je zoekopdracht ..".</p>	


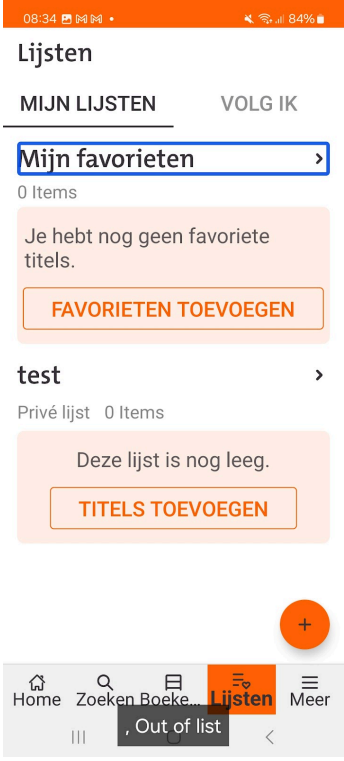

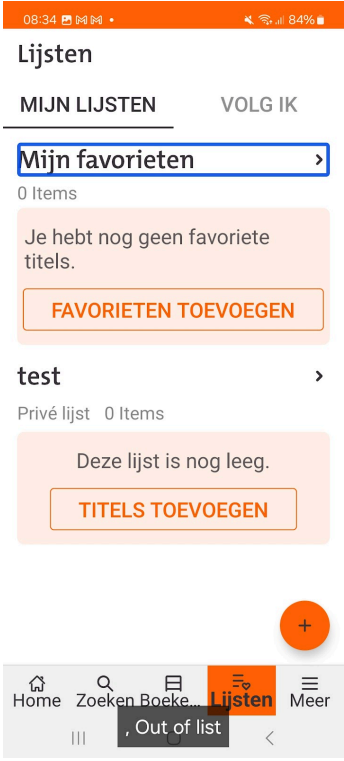
## 5. Boeken

We detected 1 findings on this screen.

Nr	Success Criterion	Problem	Screenshot
18	AA 1.4.4  Resize text	<p>The text(s) on this screen become hidden, disappears, or extends outside its container when the text is scaled to 200%. This results in characters being cut off or partially visible. Ensure that all text remains fully visible and accessible when users increase their text size.</p> <p>It is about the button "Blader door ...".</p>	 <p>08:28 85%</p> <p>Boekenplank</p> <p>Je hebt geen boeken geleend.</p> <p>Ga naar de catalogus en ontdek alle inhoud die voor u beschikbaar is</p> <p><b>BLADER DOOR DE</b></p> <p>Home Zoeken Boek... Lijsten Meer</p>


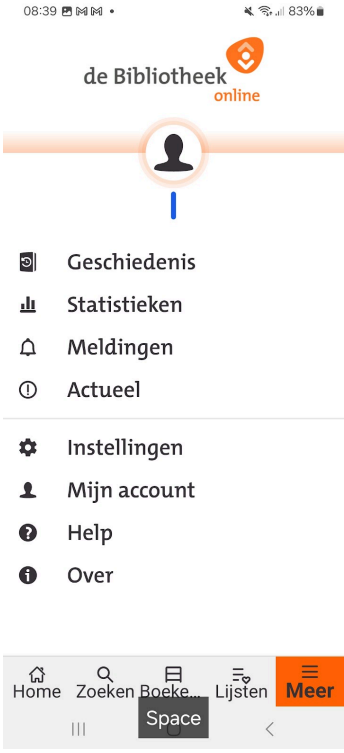

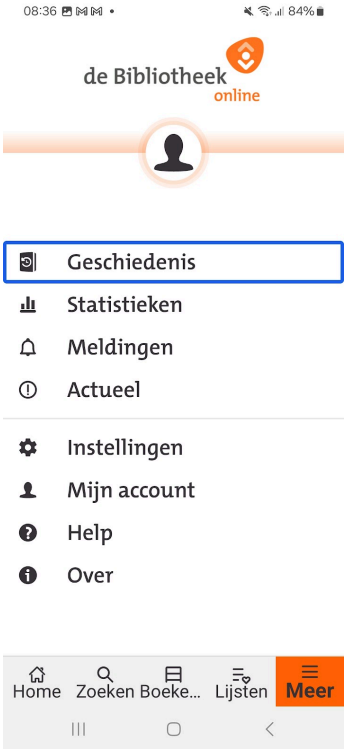
## 6. Lijsten


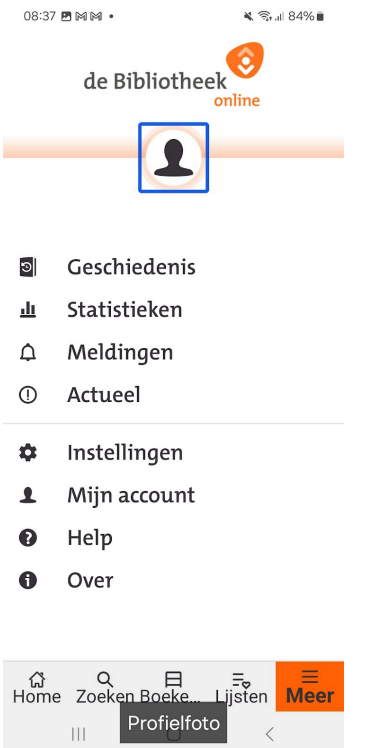
We detected 2 findings on this screen.

Nr	Success Criterion	Problem	Screenshot
6	<p> <a href="#">1.3.1</a> Info and Relationships</p>	<p>The heading text is not marked up as a heading. Simply making text bold or larger does not communicate its role to assistive technologies. Ensure headings are marked up properly so assistive technologies can identify them and convey the content structure accurately.</p> <p>It is about the button/heading "Mijn Favorieten". Also the heading "Lijsten" is not marked as heading.</p>	 <p>The screenshot shows a mobile application interface for 'Lijsten'. At the top, there is a status bar with the time 08:34 and 84% battery. Below the title 'Lijsten', there are two tabs: 'MIJN LIJSTEN' (selected) and 'VOLG IK'. A dropdown menu is open, showing 'Mijn favorieten' with a right arrow. Below this, it says '0 Items' and 'Je hebt nog geen favoriete titels.' with a button 'FAVORIETEN TOEVOEGEN'. There is also a section for 'test' with a sub-section 'Privé lijst 0 Items' and a button 'TITELS TOEVOEGEN'. At the bottom, there is a navigation bar with icons for Home, Zoeken, Boeken, Lijsten (selected), and Meer. A floating action button with a plus sign is also visible.</p>
42	<p> <a href="#">4.1.2</a> Name, Role, Value</p>	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about the button/heading "Mijn Favorieten".</p>	 <p>This screenshot is identical to the one above, showing the 'Lijsten' screen with the 'Mijn favorieten' heading and button. The issue here is specifically about the missing role for the interactive element.</p>

## 7. Meer





We detected 3 findings on this screen.

Nr	Success Criterion	Problem	Screenshot
32	 <a href="#">2.4.3</a> Focus Order	<p>The focus does not move directly to the next visible element with each swipe in a sequential navigation. Ensure that focus moves directly to the next visible element on each swipe, skipping any hidden or invisible elements, to maintain a logical and meaningful navigation order.</p> <p>Focus goes to an invisible element named "Space".</p>	
43	 <a href="#">4.1.2</a> Name, Role, Value	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about all buttons on the screen.</p>	

Nr	Success Criterion	Problem	Screenshot
44	 <a href="#">4.1.2</a> Name, Role, Value	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about the button "Profiel".</p>	 <p>The screenshot shows the 'de Bibliotheek online' app interface. At the top, there's a header with the app name and logo. Below it is a profile picture placeholder, which is highlighted with a blue square. A list of menu items follows: Geschiedenis, Statistieken, Meldingen, Actueel, Instellingen, Mijn account, Help, and Over. At the bottom, there's a navigation bar with icons for Home, Zoeken Boeke..., Lijsten, and Meer. The 'Profiel' button is highlighted with a grey box.</p>


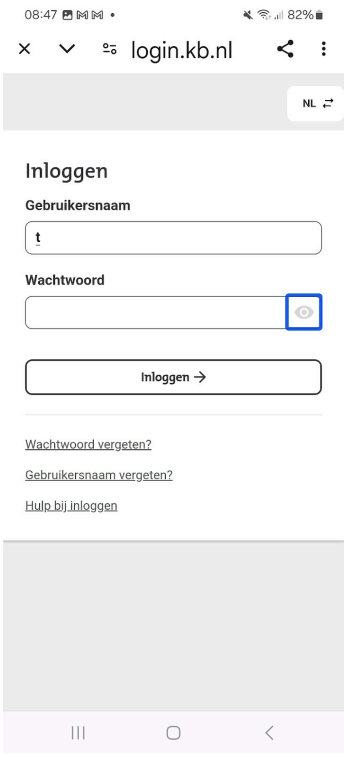

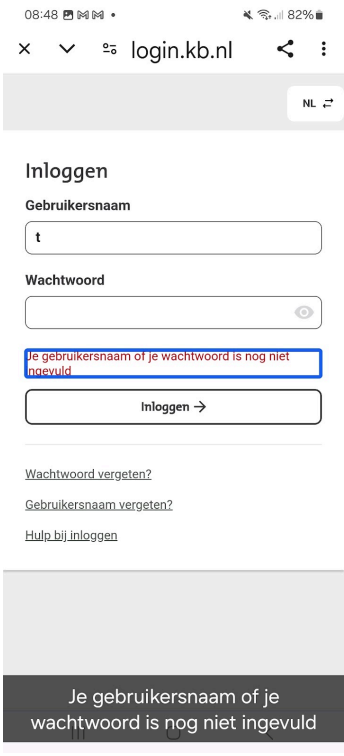
## 8. Onboarding

We detected 2 findings on this screen.

Nr	Success Criterion	Problem	Screenshot
2	 <a href="#">1.1.1</a> Non-text Content	<p>The meaningful non-text content does not have a label. Ensure that all meaningful non-text content has a label that accurately conveys its purpose to users of assistive technologies.</p> <p>It is about the logo. It is a meaningful image. Add a label and make sure it can be focused by the screen reader.</p>	
45	 <a href="#">4.1.2</a> Name, Role, Value	<p>The interactive element is missing a role. Without a role, assistive technologies cannot announce how the element behaves or how it should be interacted with, leaving users confused about its purpose. Ensure an appropriate role is assigned so users relying on assistive technologies can properly understand and interact with the element.</p> <p>It is about the button "Over".</p>	



# 9. Log-in



We detected 2 findings on this screen.

Nr	Success Criterion	Problem	Screenshot
21	 <a href="#">1.4.11</a> Non-text Contrast	<p>The contrast of interface elements on this screen is less than 3.0:1. Ensure that all interface elements meet the minimum contrast requirement of 3.0:1.</p> <p>Note: This requirement does not apply if the appearance of the interface component is determined by the operating system and has not been modified during development.</p> <p>It is about the button "Wachtwoord laten zien".</p>	 <p>08:47 • 82% login.kb.nl</p> <p>Inloggen</p> <p>Gebruikersnaam t</p> <p>Wachtwoord</p> <p>Inloggen →</p> <p><a href="#">Wachtwoord vergeten?</a> <a href="#">Gebruikersnaam vergeten?</a> <a href="#">Hulp bij inloggen</a></p>
33	 <a href="#">3.3.3</a> Error Suggestion	<p>The error message does not provide any suggestion on how to correct the input error. Make sure to give users specific guidance or instructions that help them understand how to fix the mistake, enabling them to complete the task successfully.</p> <p>It is about the error message "Je gebruikersnaam ...". Add that users should fill in the input fields.</p>	 <p>08:48 • 82% login.kb.nl</p> <p>Inloggen</p> <p>Gebruikersnaam t</p> <p>Wachtwoord</p> <p>Je gebruikersnaam of je wachtwoord is nog niet ingevuld</p> <p>Inloggen →</p> <p><a href="#">Wachtwoord vergeten?</a> <a href="#">Gebruikersnaam vergeten?</a> <a href="#">Hulp bij inloggen</a></p> <p>Je gebruikersnaam of je wachtwoord is nog niet ingevuld</p>

# 10. eBook


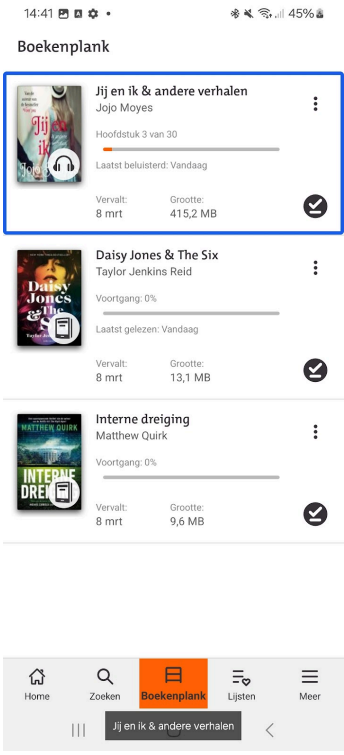

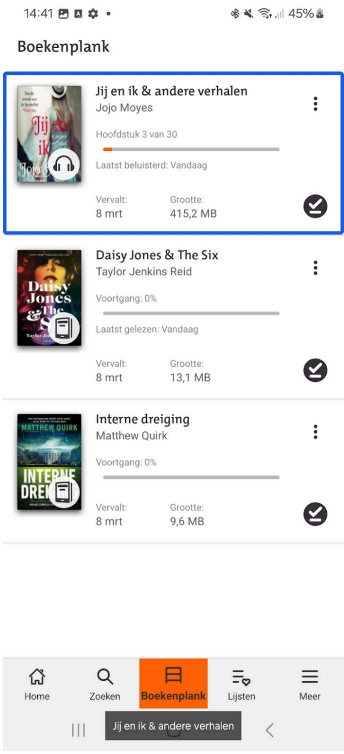
We detected 2 findings on this screen.


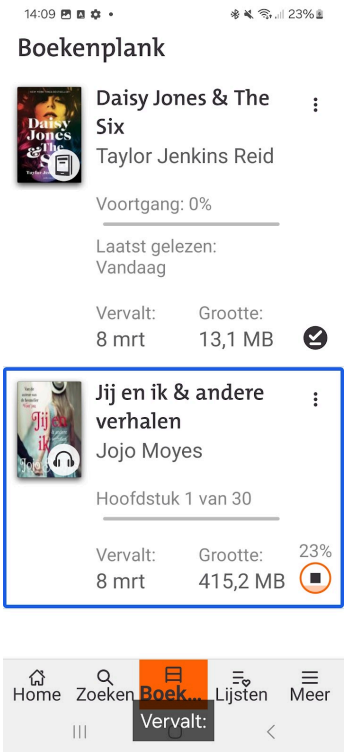

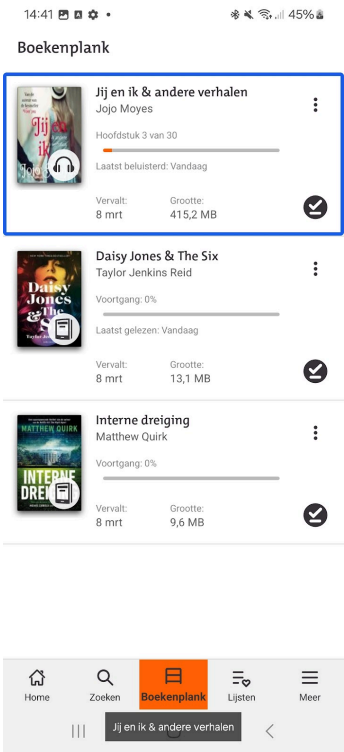
Nr	Success Criterion	Problem	Screenshot
26	 <a href="#">2.1.1</a> Keyboard	<p>The screen/parts of the screen cannot be operated with a screen reader. Make sure that all functionality is available using a screen reader.</p> <p>The focus does not go to the book. As a result, no textual description of the cover is available.</p>	 <p>13:58 16%</p> <p>NEW YORK TIMES-BESTSELLER</p> <p><b>Daisy Jones &amp; The Six</b></p> <p>Taylor Jenkins Reid</p> <p><a href="#">Volg auteur</a></p> <p>★★★★☆</p> <p>Het wel en wee van een Amerikaanse popgroep vanaf de</p> <p><a href="#">VOORBEELD</a> <a href="#">LENEN</a></p> <p>Home Zoeken Boeke... Lijsten Meer</p> <p>Favoriete</p>

Nr	Success Criterion	Problem	Screenshot
46	<p>4.1.2 </p> <p>Name, Role, Value</p>	<p>The interactive element is missing a programmatically determinable value. A value refers to the content or data associated with an element (e.g., the text entered in a text field, the selected option in a dropdown menu, or the current position of a slider). Without a defined value, assistive technologies cannot communicate the element's content or setting, making it difficult for users to understand or interact with the element effectively. Ensure all interactive elements with changeable values have a programmatically defined value.</p> <p>The Button "Favoriete" that behaves like a switch should have correct value. Either it is On or Off.</p> <p>An alternative is to make the buttons name in the selected or unselected states "Mark as favorite" and "Unmark as favorite".</p>	 <p>The screenshot shows a mobile application interface for a book. At the top, there is a status bar with the time 13:58 and battery level 16%. Below that is a navigation bar with a home icon, a search icon, and a menu icon. The main content area displays the book cover for 'Daisy Jones &amp; The Six' by Taylor Jenkins Reid. Below the cover, there are buttons for 'VOORBEELD' and 'LENEN'. At the bottom, there is a 'Favoriete' button. The 'Favoriete' button is highlighted, indicating it is the current focus.</p>

# 11. Boekenplank





We detected 4 findings on this screen.



Nr	Success Criterion	Problem	Screenshot
11	<p> <a href="#">1.4.1</a> Use of Color</p>	<p>The color of the element is the only cue used to convey information. This can prevent users who cannot perceive color from understanding the content or functionality. Ensure that color is not the sole cue by adding additional visual indicators, such as line, shapes or patterns.</p> <p>The progress of the progress bar is only indicated in colour.</p>	
23	<p> <a href="#">1.4.11</a> Non-text Contrast</p>	<p>The contrast of interface elements on this screen is less than 3.0:1. Ensure that all interface elements meet the minimum contrast requirement of 3.0:1.</p> <p>Note: This requirement does not apply if the appearance of the interface component is determined by the operating system and has not been modified during development.</p> <p>The progress bar indicator (the right side gray part) has a contrast of 1.87:1.</p>	

Nr	Success Criterion	Problem	Screenshot
27	 <a href="#">2.1.1</a> Keyboard	<p>The screen/parts of the screen cannot be operated with a screen reader. Make sure that all functionality is available using a screen reader.</p> <p>It is not possible to reach the "Stop downloading" button with the screen reader.</p>	 <p>14:09 23%</p> <p>Boekenplank</p> <p><b>Daisy Jones &amp; The Six</b> Taylor Jenkins Reid Voortgang: 0% Laatst gelezen: Vandaag Vervalt: 8 mrt Grootte: 13,1 MB</p> <p><b>Jij en ik &amp; andere verhalen</b> Jojo Moyes Hoofdstuk 1 van 30 Vervalt: 8 mrt Grootte: 415,2 MB</p> <p>Home Zoeken Boekenplank Lijsten Meer</p> <p>Vervalt: &lt;</p>
47	 <a href="#">4.1.2</a> Name, Role, Value	<p>The interactive element has an incorrectly defined value. If the value does not accurately reflect the current content or setting of the element (e.g., a dropdown announces the wrong selection or a slider announces the wrong position), assistive technologies will convey incorrect information to users. This can lead to confusion and hinder effective interaction. Ensure all interactive elements with changeable values accurately announce their current value.</p> <p>The progress bar indicator is not read by the screen reader.</p>	 <p>14:41 45%</p> <p>Boekenplank</p> <p><b>Jij en ik &amp; andere verhalen</b> Jojo Moyes Hoofdstuk 3 van 30 Laatst beluisterd: Vandaag Vervalt: 8 mrt Grootte: 415,2 MB</p> <p><b>Daisy Jones &amp; The Six</b> Taylor Jenkins Reid Voortgang: 0% Laatst gelezen: Vandaag Vervalt: 8 mrt Grootte: 13,1 MB</p> <p><b>Interne dreiging</b> Matthew Quirk Voortgang: 0% Vervalt: 8 mrt Grootte: 9,6 MB</p> <p>Home Zoeken Boekenplank Lijsten Meer</p> <p>Jij en ik &amp; andere verhalen &lt;</p>

## 12. Waardering en recensies



We detected 3 findings on this screen.







Nr	Success Criterion	Problem	Screenshot
10	 <a href="#">1.4.1</a> Use of Color	<p>The color of the element is the only cue used to convey information. This can prevent users who cannot perceive color from understanding the content or functionality. Ensure that color is not the sole cue by adding additional visual indicators, such as line, shapes or patterns.</p> <p>The selected and unselected stars are only indicated in colour.</p>	
22	 <a href="#">1.4.11</a> Non-text Contrast	<p>The contrast of interface elements on this screen is less than 3.0:1. Ensure that all interface elements meet the minimum contrast requirement of 3.0:1.</p> <p>Note: This requirement does not apply if the appearance of the interface component is determined by the operating system and has not been modified during development.</p> <p>The contrast of the stars are 1.14:1 with their background.</p>	



Nr	Success Criterion	Problem	Screenshot
28	 <a href="#">2.1.1</a> Keyboard	<p>The screen/parts of the screen cannot be operated with an (external) keyboard. Make sure that all functionality is available using a keyboard interface.</p> <p>It is not possible with the external keyboard to add stars.</p>	


# 13. Audio player

We detected 6 findings on this screen.

Nr	Success Criterion	Problem	Screenshot
3	 <a href="#">1.2.1</a> Audio-only and Video-only (Prerecorded)	The prerecorded audio-only content lacks a text alternative that provides equivalent information. Ensure a text alternative, such as a transcript, is available to convey all important information as text.	

Nr	Success Criterion	Problem	Screenshot
7	<p> <a href="#">1.3.2</a> </p> <p>Meaningful Sequence</p>	<p>The content on the screen is not presented in a meaningful order. Elements that belong together must be presented together. Otherwise, users may misunderstand the content. Ensure that the content follows a meaningful order so that assistive technologies can convey related elements in the correct sequence.</p> <p>The focus moves from the back-button, to the "Dichtbij" Button to the title under the image. Only after this the title at the top of the screen receives focus.</p> <p>Also other elements are not in a logical order.</p>	
12	<p> <a href="#">1.4.2</a> </p> <p>Audio Control</p>	<p>On this screen, the sound plays automatically and lasts longer than 3 seconds. Provide a control near the beginning of the screen to turn the sound off.</p> <p>Make sure the audio is not automatically played.</p>	

Nr	Success Criterion	Problem	Screenshot
19	<p><a href="#">1.4.4</a>  <a href="#">Resize text</a></p>	<p>The text(s) on this screen become hidden, disappears, or extends outside its container when the text is scaled to 200%. This results in characters being cut off or partially visible. Ensure that all text remains fully visible and accessible when users increase their text size.</p> <p>The text of the title of the screen and the numbers that indicate the set timer are not completely visible.</p>	
20	<p><a href="#">1.4.4</a>  <a href="#">Resize text</a></p>	<p>The text(s) on this screen does not scale when the text is scaled to 200%. Make sure all text remains readable when scaled.</p> <p>The numbers "10" are not scaling.</p>	

Nr	Success Criterion	Problem	Screenshot
49	 <a href="#">4.1.3</a> Status Messages	<p>The status message on the screen is not announced by assistive technologies. It may inform users about the outcome of their actions or the current state of the app. If not announced, users relying on assistive technologies will be unaware of important updates. Status messages must be communicated to users without automatically receiving focus.</p> <p>New information is shown after clicking the next chapter. Make sure important new information is announced.</p>	