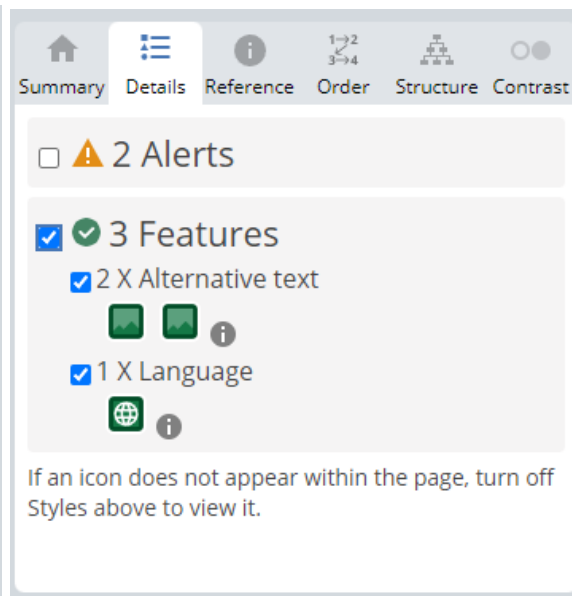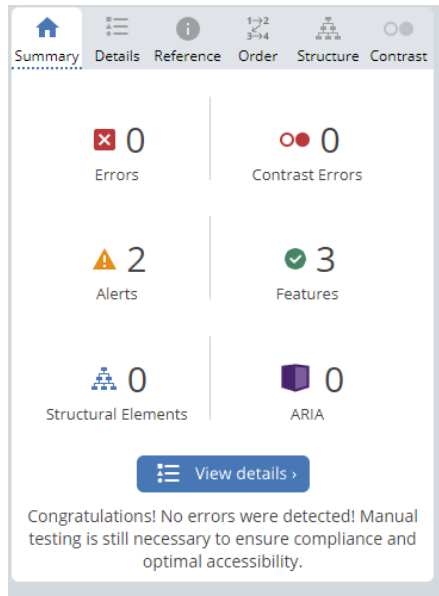## Responsiveness
Screen sizes to test:
Large laptop width (1440px)
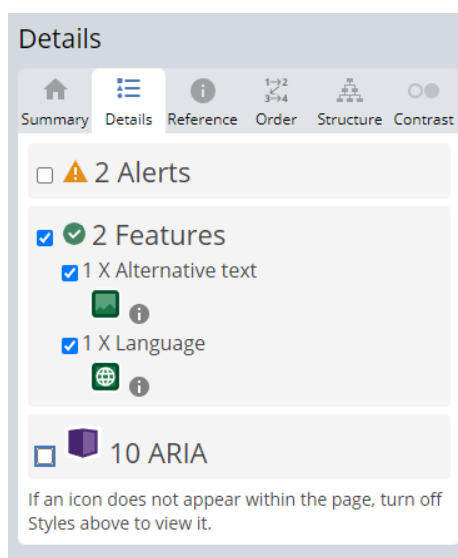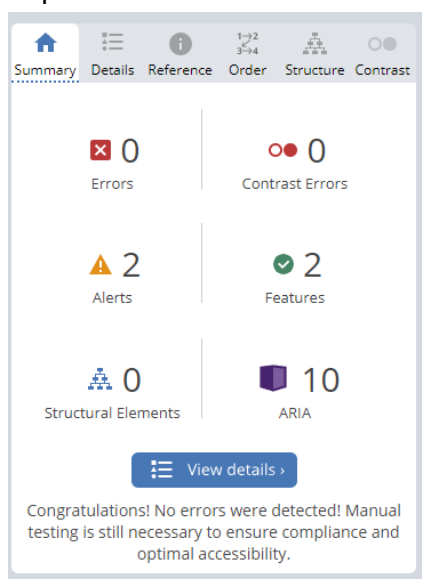Mobile large width (425px)

Accessibility
Home.html

Departure.html

Bookdep.html

Summary

Summary | **Details** | **Reference** | **Order** | **Structure** | **Contrast**

❌ 0
Errors

⦿● 0
Contrast Errors

⚠ 2
Alerts

✅ 2
Features

⛓ 0
Structural Elements

🟪 0
ARIA

▤ View details ›

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Details

Summary | **Details** | **Reference** | **Order** | **Structure** | **Contrast**

☐ ⚠ 2 Alerts

☑ ✅ 2 Features
☑ 1 X Alternative text
🖼 ⓘ
☑ 1 X Language
🌐 ⓘ

If an icon does not appear within the page, turn off Styles above to view it.

Bookarr.html

Summary

Summary | **Details** | **Reference** | **Order** | **Structure** | **Contrast**

❌ 0
Errors

⦿● 0
Contrast Errors

⚠ 2
Alerts

✅ 2
Features

⛓ 0
Structural Elements

🟪 0
ARIA

▤ View details ›

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Details

Summary | **Details** | **Reference** | **Order** | **Structure** | **Contrast**

☐ ⚠ 2 Alerts

☑ ✅ 2 Features
☑ 1 X Alternative text
🖼 ⓘ
☑ 1 X Language
🌐 ⓘ

If an icon does not appear within the page, turn off Styles above to view it.

Addons.html

Summary

Summary | Details | Reference | Order | Structure | Contrast

❌ 0
Errors

◉● 0
Contrast Errors

⚠ 2
Alerts

✅ 2
Features

⛓ 0
Structural Elements

🟪 6
ARIA

≡ View details ›

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Details

Summary | Details | Reference | Order | Structure | Contrast

☐ ⚠ 2 Alerts

☑ ✅ 2 Features
☑ 1 X Alternative text
☑ 1 X Language

☑ 🟪 6 ARIA
☑ 2 X ARIA label
☑ 2 X ARIA expanded
☑ 2 X ARIA popup

If an icon does not appear within the page, turn off Styles above to view it.

Tripsummary.html

Summary

Summary | Details | Reference | Order | Structure | Contrast

❌ 0
Errors

◉● 0
Contrast Errors

⚠ 4
Alerts

✅ 2
Features

⛓ 0
Structural Elements

🟪 4
ARIA

≡ View details ›

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Details

Summary | Details | Reference | Order | Structure | Contrast

☐ ⚠ 4 Alerts

☑ ✅ 2 Features
☑ 1 X Alternative text
☑ 1 X Language

☑ 🟪 4 ARIA
☑ 2 X ARIA label
☑ 2 X ARIA expanded

If an icon does not appear within the page, turn off Styles above to view it.

Purchase.html

Summary

Summary | Details | Reference | Order | Structure | Contrast

❌ 0
Errors

◐● 0
Contrast Errors

⚠ 2
Alerts

✓ 3
Features

🔺 0
Structural Elements

🟪 0
ARIA

≣ View details ›

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Details

Summary | Details | Reference | Order | Structure | Contrast

☐ ⚠ 2 Alerts

☑ ✓ 3 Features
☑ 2 X Alternative text
☑ 1 X Language

If an icon does not appear within the page, turn off Styles above to view it.

Write-up

1. The purpose of my website was to create/redesign a train ticket booking system similar to Amtrak's booking system. I wanted to convey all the necessary information and steps that relate to the process of booking a train ticket, such as the home screen, choosing departure and arrival dates, choosing departure and arrival locations, choosing departure and return trips as well as fare classes, adding add-ons, and looking at the trip summary and payment screens. My website is interesting and engaging in that it has a lot of neat little JavaScript interactions. It takes a lot of the small possibilities into consideration, such as having the fare class pull out from under the selected trip, only allowing the user to select dates up to one week from the current date, as well as the displaying the weather information from the AccuWeather API for the departure and arrival locations of the selected trips. The target audience for my website would be for anybody who is looking to book Amtrak train tickets.

2. Walking through how to complete the booking process/interact with the website
   - Button on home/landing page
     - Click on "Book Tickets" button
   - Dropdowns on Departure/Arrival dates and destinations screen
     - Click on "From: departure address or destination" dropdown
       - Choose a departure item/location on dropdown
     - Click on "To: departure address or destination" dropdown
       - Choose an arrival item/location on dropdown
     - Click on "Select Departure Date" dropdown
       - Choose an available date from the calendar dropdown
     - Click on "Select Arrival Date" dropdown

- ■ Choose an available date on or after the selected departure date from the calendar dropdown
    - ○ Click on "Search" button to continue
- ● Buttons on Departure page
    - ○ Click "Select" button within any container with the trip details that you want
    - ○ Click on radio button corresponding to the fare class that you want
    - ○ Click on "confirm" button to continue
- ● Buttons on Arrival page
    - ○ Click "Select" button within any container with the trip details that you want
    - ○ Click on radio button corresponding to the fare class that you want
    - ○ Click on "confirm" button to continue
- ● Dropdowns and buttons on Add-ons page
    - ○ Select dropdowns corresponding to bicycles or pets to add corresponding item to the trip
    - ○ Click "Confirm" button to continue
- ● Buttons on Trip Summary page
    - ○ Click top "Show Weather" button to show weather over next 5 days for departing location for departure trip
    - ○ Click bottom "Show Weather" button to show weather over next 5 days for departing location for return trip
    - ○ Click "Confirm Booking" button to continue to Payment page

3.

- ● External Tool name: Accuweather Web API
- ● Why: I chose to use it because I thought it would be able to present useful information for travelers/users. I think they'd like to know what the weather is like for their upcoming trip to know how to dress up accordingly for the weather.
- ● How: I used it by creating an account and requesting an API key to be able to access the 5 day forecast API for the locations I needed. I then called the URL for the 5 day forecast in a separate JavaScript file, and appended the apiKey and the location key to the URL parameters to get the information. Lastly, I displayed that information with HTML code, by having a button that when clicked, would have a dropdown of the weather info.
- ● What does it add?: Again, I thought it would be useful information for travelers to have to be able to access the weather forecast for their upcoming trip in case they were curious. Then, they can dress up for the weather accordingly. Additionally, I think many ticket booking systems and websites don't have weather APIs that display weather information, so I think it's a unique thing to include and would make it more convenient for travelers.

4. I iterated on my prototypes by first creating an original prototype of all my pages for the project, and then had 2 testers go through all the pages and the process of ticket booking. From the testing, I got feedback from both my testers that the container for inputting the departure and arrival dates and destinations could be formatted better than the classic single row layout. I decided to redesign the layout by putting the departure and arrival locations in one column and the departure and arrival dates in a separate column, forming a 2 by 2 grid. I then showed the layout to the same people again, and they both said it was better than the single row layout, as the departure date and location were grouped together in one row, and vice versa for the arrival date and location.

5. I had a decent bit of trouble setting up the API, as the API key I was given did not seem to work at first. After I was able to access the necessary weather information, I had trouble implementing that into displaying on my website. There was also a lot of documentation I had to look through to be able to use the API and get the information I needed to display on the page properly.