Sruti Srinidhi
Section E
FP4

FP4: Final Project Report

Deployed Website: https://srutisrinidhi.github.io/Activated/

Part 1: Project Description

Ever felt bored or unsure what you should do on your day off? Want to explore something new but don't know what? Activated allows you to unlock new experiences and activities you can do around you!

The website is intended to help you look through and decide what activities you want to do in pittsburgh. You can like or dislike activities, look at where they are located on a map, as well as schedule them into your calendar. The inspiration for this website is to build something like tinder but for activities.

The intended user is someone who is looking to explore the city, or is bored and looking for something interesting to do around them. Whether the person is new to the city and visiting for a few days, or someone who wants something to do on a sunday.

The website is engaging as it provides new activities that you can swipe through and save all the interesting ones. There are easy to understand visualizations (like map and calendar view) of the activities which helps the user decide which ones to do.

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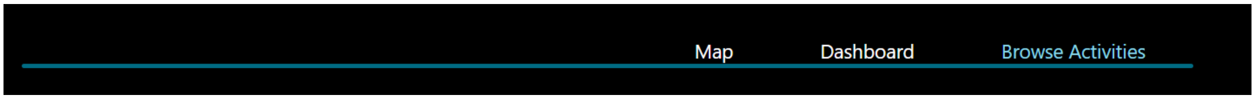
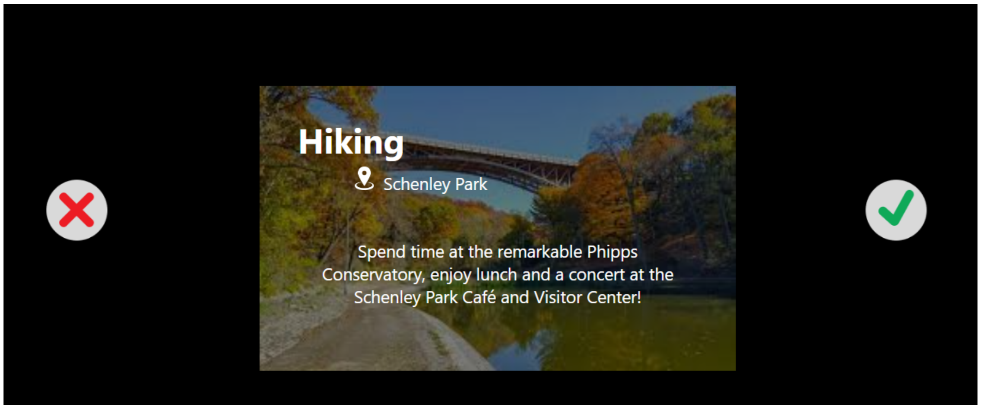
Part 2: Interactions

The website has several interactions, as detailed below:

- A navigation bar to switch between the three pages - Browse Activities, Dashboard, and Map. Clicking on each one opens up the respective page. When a page is open, its corresponding navigation bar element turns blue.

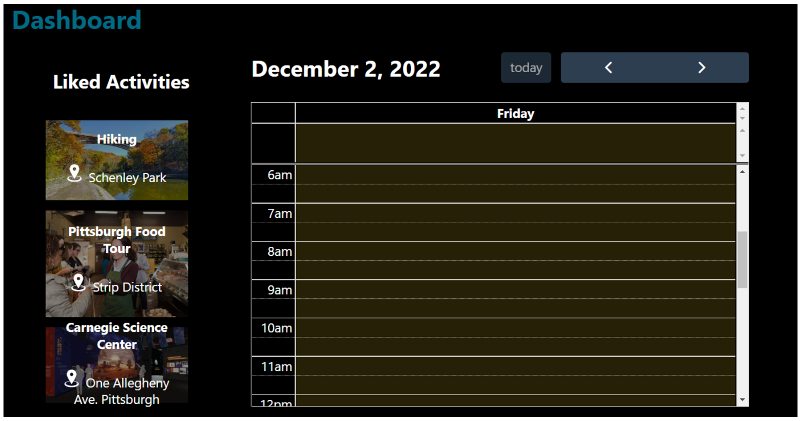


- Within the browse activities page, clicking on the check mark or the cross mark allows the user to like or dislike the activity, followed by a new activity being displayed. The like is on the right while dislike is on the left, which mimics the tinder interactions where swiping right means to like and swiping left means to dislike.



Spend time at the remarkable Phipps Conservatory, enjoy lunch and a concert at the Schenley Park Café and Visitor Center!

- In the dashboard, there is a calendar which can be scrolled through. The arrow buttons on top of the calendar are used to view the previous or the next day. The calendar can be scrolled both using the vertical scroll bar on the side of it, as well as mouse wheel/mouse pad scrolling. Any scrolling mechanism that works with one's computer can be used as a means to scroll through the calendar.



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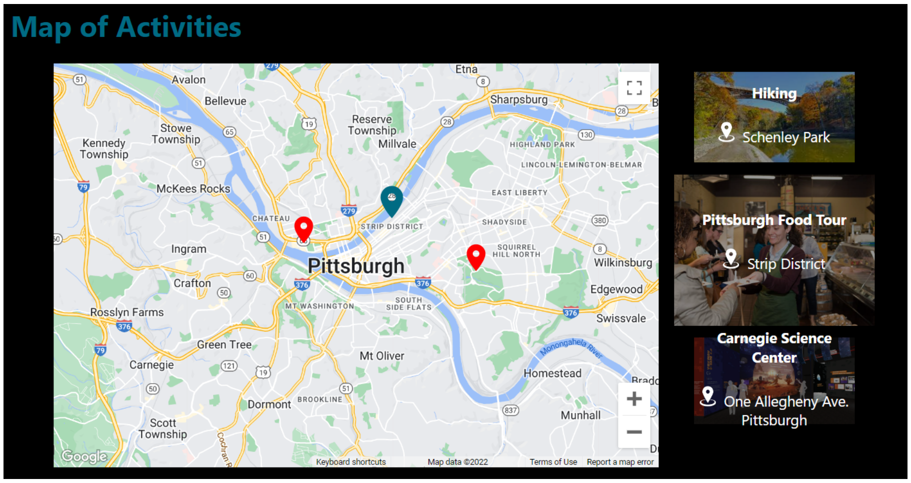
- In the dashboard, all the liked activities are displayed. These activities can be dragged and dropped into the calendar to schedule them into the calendar.
- In the map page, all the liked activities are displayed on the side, while pins suggesting their locations are displayed on the map. On hovering over the pin on the map, the color of the pin changes while the corresponding activity displayed on the side gets enlarged a little, indicating its marker was selected.



Map of Activities

Hiking
Schenley Park

Pittsburgh Food Tour
Strip District

Carnegie Science Center
One Allegheny Ave. Pittsburgh

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Part 3: External Tools

The following external tools were used in my website:

- **Google Maps API**
    - I am using the google maps API to visualize the location of the activities that the person likes. I decided to use google maps over any other map apis because it is the most commonly used one and so has the most support in terms of documentation and problem solving. It is also the application most people are familiar with so it would be easy for users to understand.
    - I used google maps on the map page of my website. Here I added markers at the location of the activities and then added a hover feature on them where the marker would change color on hover.
    - This adds to the visualizability of the activities. Based on user feedback, users wanted to be able to see where the activities are so they could plan their day better. This is why I included the map feature in my website.
- **Full Calendar API**
    - I am using Full Calendar to create a scheduling aspect in my website. I looked at a couple different calendar APIs and this one had the most functionality that matched my needs. It also had extensive documentation which made understanding it and working with it easier
    - My goal with the calendar was to be able to drag and drop external elements into the calendar and schedule them. The Full Calendar API had that functionality easily available, making it easier to implement and embed into my application.
    - This made my website a lot more usable, because it not just provided ideas on what activities to do but gave the user a means to make it actually happen but scheduling it into their day. This allowed my website to have the entire workflow, from ideation of activity to scheduling it.

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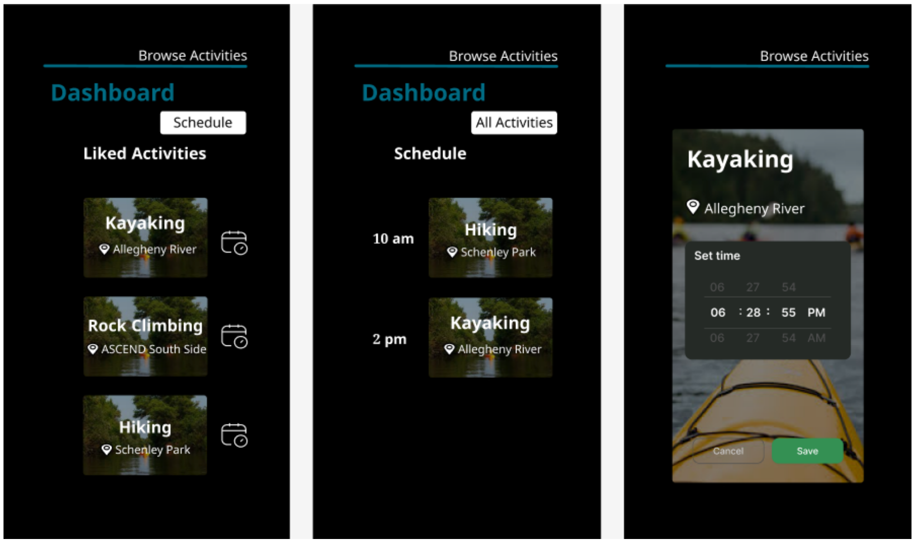
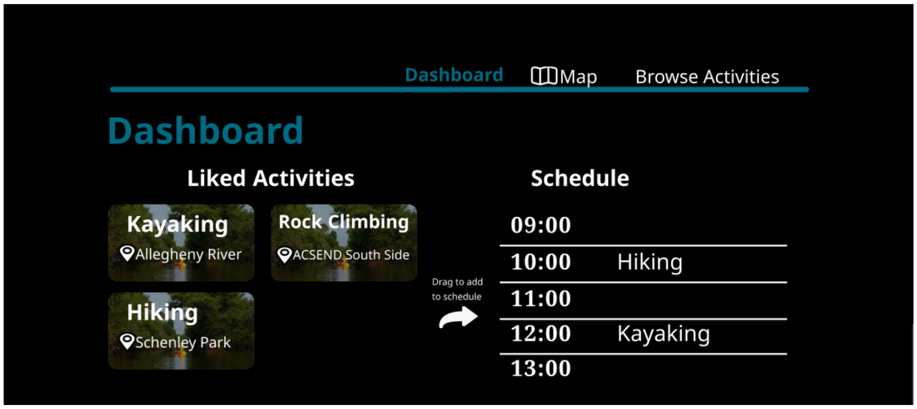
Part 4: Iterations

My initial design ideas involved building this application on the mobile phone to allow for swipe interactions. However, on user testing, I discovered that people preferred planning their days out on their laptops as it was an easier means to search up the activities and plan their schedules than their phones. This led to considerable design changes.

In addition, one of my major design changes was in the calendar and dashboard. Initially I planned to have two separate pages for the calendar and the dashboard. You could click on the activity on the dashboard and type in the time you wanted to schedule it for and this would reflect on the calendar page. This was not ideal as the user could not look at the calendar while trying to schedule the activity, and the user had to switch pages back and forth to view it. I thus decided to change this and have the activities and the calendar side by side to allow for better interaction. Below is the initial design followed by the final design.





09:00
10:00 Hiking
11:00
12:00 Kayaking
13:00

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Part 5: Challenges

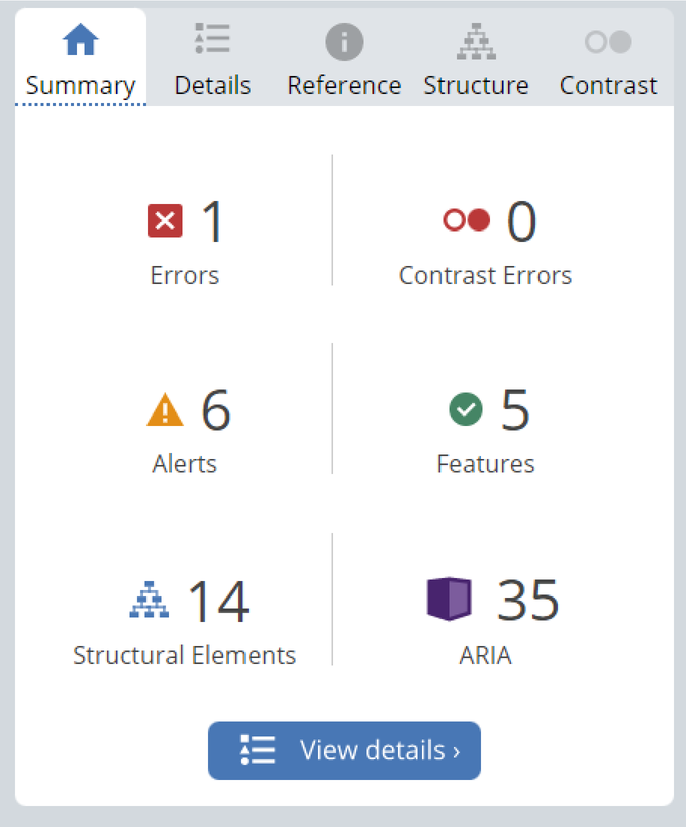
Some of my challenges while implementing this website were:

- Working with the google map API was a learning curve and was difficult initially
- CSS has always been a challenge for me, so working on design aspects took a significant amount of my time
- Creating draggable objects in react was a challenge for me as I did not know about the draggable object type initially

Part 6: Accessibility Wave Report

Summary Page:

The one error shown below is an error about the missing table header within the Full Calendar (API) element I am using, which is something I have no control over and can not fix.



1 Errors

0 Contrast Errors

6 Alerts

5 Features

14 Structural Elements

35 ARIA

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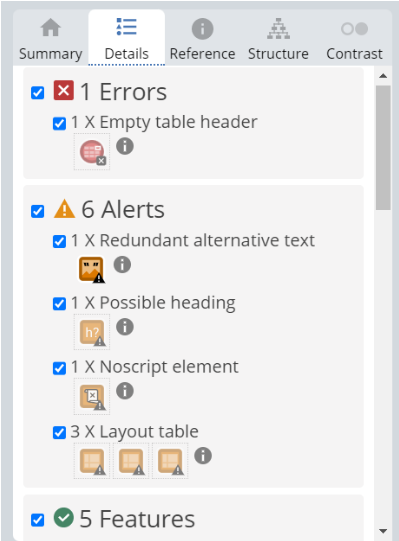
Details Page:



Summary Details Reference Structure Contrast

☑ ☒ 1 Errors

☑ 1 X Empty table header

☑ ⚠ 6 Alerts

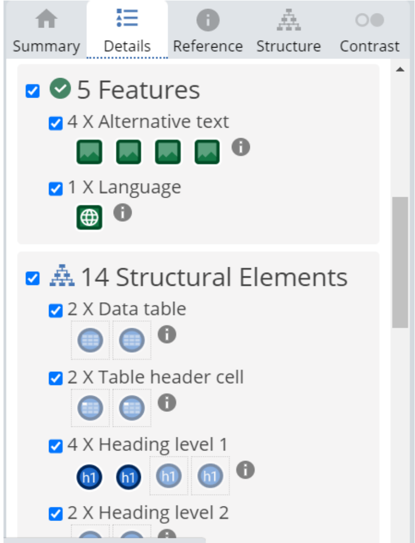
☑ 1 X Redundant alternative text

☑ 1 X Possible heading

☑ 1 X Noscript element

☑ 3 X Layout table

☑ ✓ 5 Features



Summary Details Reference Structure Contrast

☑ ✓ 5 Features

☑ 4 X Alternative text

☑ 1 X Language

☑ 14 Structural Elements

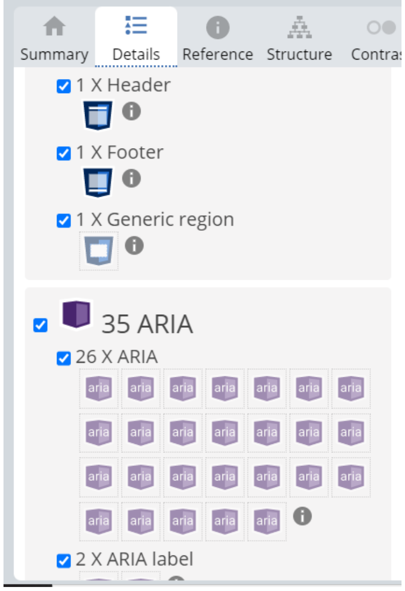
☑ 2 X Data table

☑ 2 X Table header cell

☑ 4 X Heading level 1

h1 h1 h1 h1

☑ 2 X Heading level 2



Summary Details Reference Structure Contras

☑ 1 X Header

☑ 1 X Footer

☑ 1 X Generic region

☑ 35 ARIA

☑ 26 X ARIA

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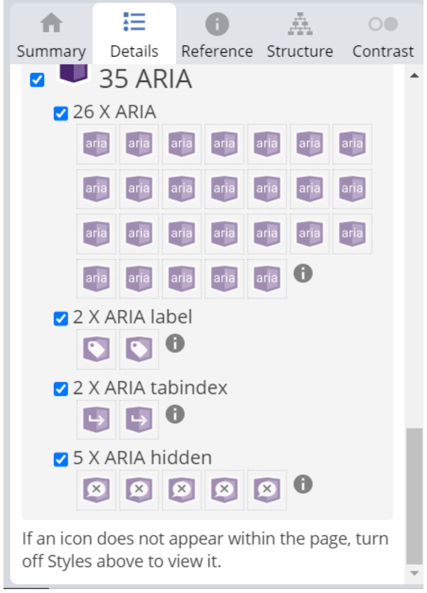
☑ 2 X ARIA label



Summary Details Reference Structure Contrast

☑ 35 ARIA

☑ 26 X ARIA

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☑ 2 X ARIA label

☑ 2 X ARIA tabindex

☑ 5 X ARIA hidden

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

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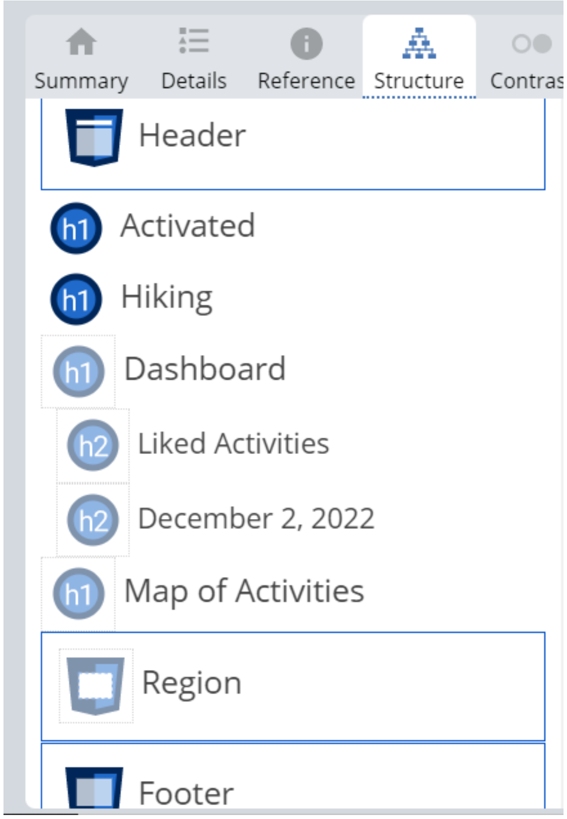
Structure Page:



Header

h1 Activated

h1 Hiking

h1 Dashboard

h2 Liked Activities

h2 December 2, 2022

h1 Map of Activities

Region

Footer