My Journal

- *Harsha Ramayanam*

Weeks 1 and 2 –

Ever since the announcement for final project was made, I was unsure of what might be a good project. While I was hunting for ideas, my partner Shweta suggested an idea that we will make a hiking trails web app that displays some useful information about hikes to the users and lets them choose a hike to go to in their region. I liked her idea and we both decided to do that project. Eventually, we also made some decisions to integrate even more useful features to our app like the weather information, map routes to a selected hike, hike trail statistics etc. So, I created a web flow design on how our website might work. Shweta searched for various APIs that might help for our project.

Week 3 –

We are still looking for some good APIs that might help for our project, as we got into some trouble finding APIs on hike trails. However, we'll start the coding part and simultaneously explore for APIs. Since we are not using our own database server in the backend, we are totally relying on the APIs.

Week 4 –

This week, Shweta created a react app in our repo and added some code for responsive headers with the help of 'react-bootstrap' module. I modified our project folder structure and added some routing functionality between home-page, hike-trails page, weather-page.

Week 5 –

I was a little busy as it was midterm week and I didn't contribute much for coding. Instead, I continued my search for API's on hike trails. After an exhaustive search, I finally found a Kaggle dataset on hike trails, so I downloaded it. It's a CSV file originally but I used an online tool to convert from CSV to JSON and saved it in our project folder.

Week 6 –

Now's the time to experiment with my new dataset. I created a new route to redirect page to "Hike Page" and I began working on building that page. I started with a simple form with an input text box and a search button which I used as a font-awesome icon. Then, I thought I shall add some search criteria as well, for example search by hike name, search by state, etc., so I added them too.

Week 7 –

I'm getting to learn new things about react and its state management and react hooks are amazing. They helped me solve many problems including passing state to child components, creating global context variable, conditional rendering, and useEffects. At first, I wasn't sure on how do I display hike data on my page, then Shweta gave me this idea of cards and I implemented them in my page. Also formatted various features of the hike and added them to my cards.

Week 8 –

I learned a new way of displaying star rating for a hike, given the ratings from 1-5. For getting the hike directions, I thought I would use Google Map API, but it was no longer free and if I use it, It doesn't show the map. So, I switched to MapBoxGL API and used that. It has more latency response compared to google map but it did the work. I used the current location in navigation object and the location of the hike and passed those values to mapbox to get directions.

Week 9 –

Now, I need to implement a way to the "Check weather" button to redirect the coordinates to Weather page. I faced difficulty first using React context as the weather page was written in class components, yet I managed to pass the coordinates to weather page and it shows the weather at that location accordingly.

Week 10 –

To finalize our app, I made little adjustments, like the footer placement, fixing background image issue, adding blur effect to the hike cards, some animated CSS to nav bar items, etc. Finally, we deployed our project to Heroku and it's all set.

Deployed app: https://weather-hike-app.herokuapp.com/

Git commands: *(I'm not sure why is it showing me twice!)*

1. `git shortlog --numbered –summary`

```
  176  sk192
   99  HarshaRamayanam
    3  Harsha Ramayanam
```

2. `git log --format='%aN' | sort -u | while read name; do echo -en "$name\t"; git log --author="$name" --pretty=tformat: --numstat | awk '{ lines += $1 - $2 } END { printf "lines: %s\n", lines }' -; done`