

Weather Web application Journal

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Week 1 and Week 2:

Ever since the announcement for final project was made, We were unsure of what might be a good project. After searching lot's of topics I came up with 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. My partner Harsha also liked this idea and we both decided to do this 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, Harsha created a web flow design on how our website might work. Meanwhile I searched for various APIs that might help for our project.

Week 3:

We are looking for some good API's for our project. After lot's of reading and research we found 3 good API's for weather application. We got some Map and Hike trail API's as well. But we are still searching for good Hike trail API's. Simultaneously we will start working on coding. We also started reading about which JS framework to choose. We read about React and Angular. Then we decided to choose React because it's easy to learn and good for beginner's to start with.

Week 4:

I started writing code. Created home page with navigation links that points to different pages. Initially created div and added links in that div. But wasn't looking good after resizing the window. So I searched for some website on google and after using dev tools got an idea about navbar. So to fixed the div issue used navbar. **Referred MDN site to read about navbar.** Going to create weather page with links like hike_tails link and home link.

After creating these pages, I started learning React. I did some research about how to use react framework. I also followed the lecture notes and material available on webdev-example folder to learn react. Then I realized I should have create react app first before creating home page. So I started again by first creating react app by using the command "npm install create-react-app".

It takes me lot of time to learn how to use react. I got an issue with Navbar and navigation links to other pages. I used react bootstrap to display Navbar but it wasn't appearing on a screen. I did go in depth to resolve this issue. I tried different ways of using 'navbar' like with react bootstrap and without react bootstrap. But still it wasn't working. Later I realize that I was getting an error because of function name. So resolves this issue by capitalizing the first letter of the function. So finally ended up using <nav> for navbar. After displaying navbar I worked on links to route to other pages. Now going to work on API.

Week 5 and week 6:

Working on fetching data from the API. I **used openWeatherMap API**. Initially

displayed current weather information. Later going to display forecast. I faced problem while displaying data after clicking the button, due to calling the method in a wrong way in the form. But resolved that issue after googling this error and understanding where I am getting wrong. To display the weather Icon, I am using **OpenWeatherMap API icon's**. Also used environment variable to hide API key. To use environment variable, I started by "npm install dotenv" and then created .env file and then added API key in this file. I also included .env in the .gitignore file.

Week 7:

Working on displaying weather forecast information. Planning to display data in the graph. Going to use bar chart to display daily data minimum and maximum temperature and line chart to display hourly data temperature.

Week 8:

Ended up displaying weather forecast information using cards instead of bar chart. Now working on displaying 24 hour weather information in line chart. Also will add CSS for good layout.

Week 9:

Displayed line chart for 24 hour weather information. It is displaying every 2 hours data for 24 hours. Added background image according to weather condition. I faced problem while displaying background image. Earlier image was displaying just to div not entire body. Fixed this problem by setting image to body. For this first imported all images in file. Also added media query.

Week 10:

Worked on error handling from API response. Also displayed local time of particular city according to weather condition. Had difficulty in displaying local time. Tried using timezone and sunrise time to calculate local time but didn't worked so **used ipgeolocation API to display local time of searched city**. Also added contact page with links to github link for this project repository and linkedIn profile link. Checked the accessibility of page using WAVE PAGE. Also made the page responsive.

REFERENCE:

- 1) <https://developer.mozilla.org/en-US/docs/Web/JavaScript>
- 2) <https://create-react-app.dev/docs/available-scripts>
- 3) https://www.youtube.com/watch?v=GuA0_Z1llYU