

CT Windvision



By Wacky Windmills

About Us: Wacky Windmills



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Summary of Project: CT Windvision

- Utilizes historical air temperature, wind direction, and speed data in Connecticut to create a website with a user-friendly interface and easy for anyone to navigate, accessing data by searching or browsing.
- NASA data processed and analyzed for accurate information, accessible by searching or browsing
- Valuable resource for renewable energy industry and interested parties, promotes renewable energy development in Connecticut.

Users and Stakeholders

- Users:
- Wide range of individuals and organizations interested in wind energy and the potential for renewable energy development in Connecticut. Windmill Companies, Policymakers, Researchers
- Stakeholders:
- Diverse group of individuals and organizations who stand to greatly benefit from the increased use of renewable energy.
- NASA (provider of data used in the project)

Technologies

We will be using the MERN tech stack.

MongoDB - A document Oriented, No-SQL database.

ExpressJS - A web framework built on top of Node that allows us build backends and API's.

ReactJS - A Javascript library that allows us to build UI components for the front-end.

NodeJS - Javascript environment that allows users to run javascript on a server rather than a browser.

Functional

&

Non-Functional

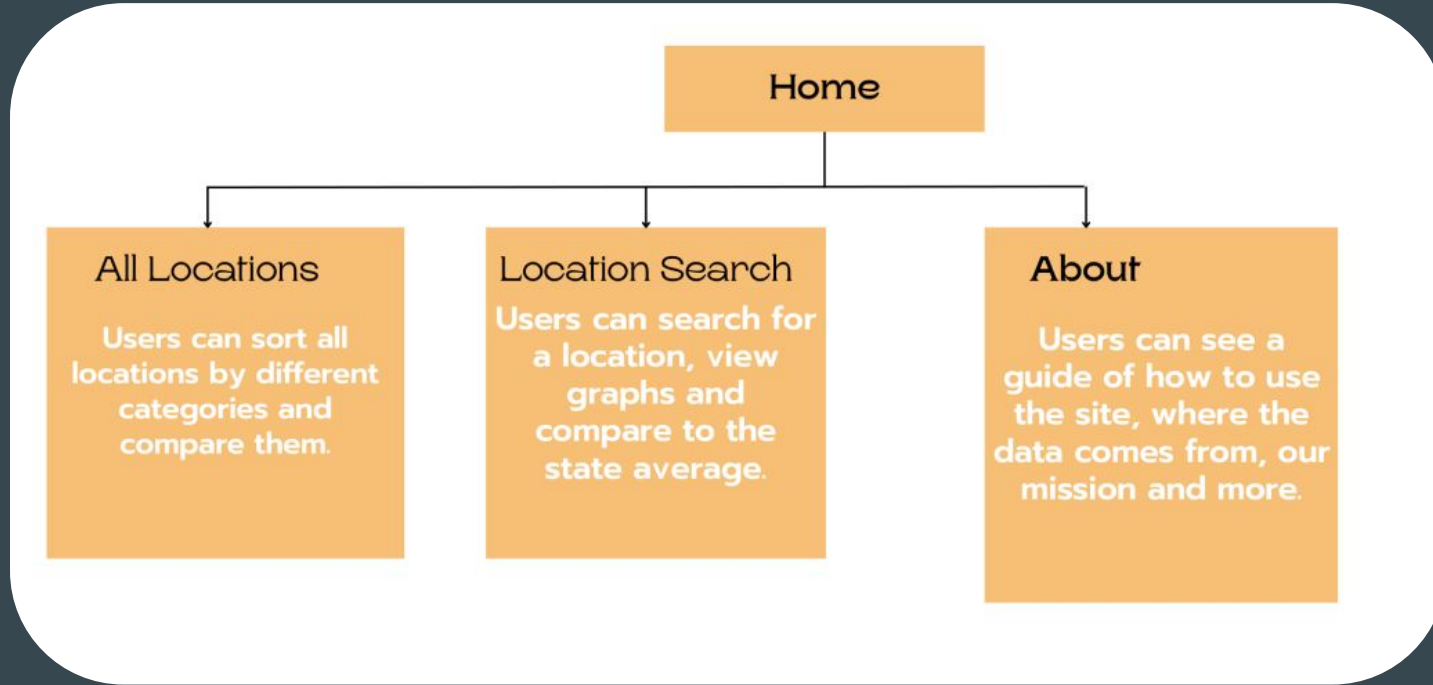
- ❑ Store NASA's data on wind speed, direction, and temperature
- ❑ Return data to users for each type of query (ex: location, date)

- ❑ Allow users to find/sort data based on location and range of dates
- ❑ Provide clear documentation for sample API calls

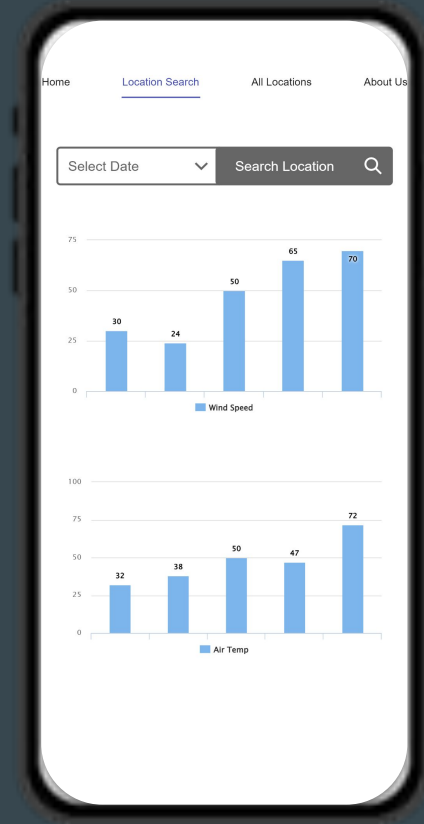
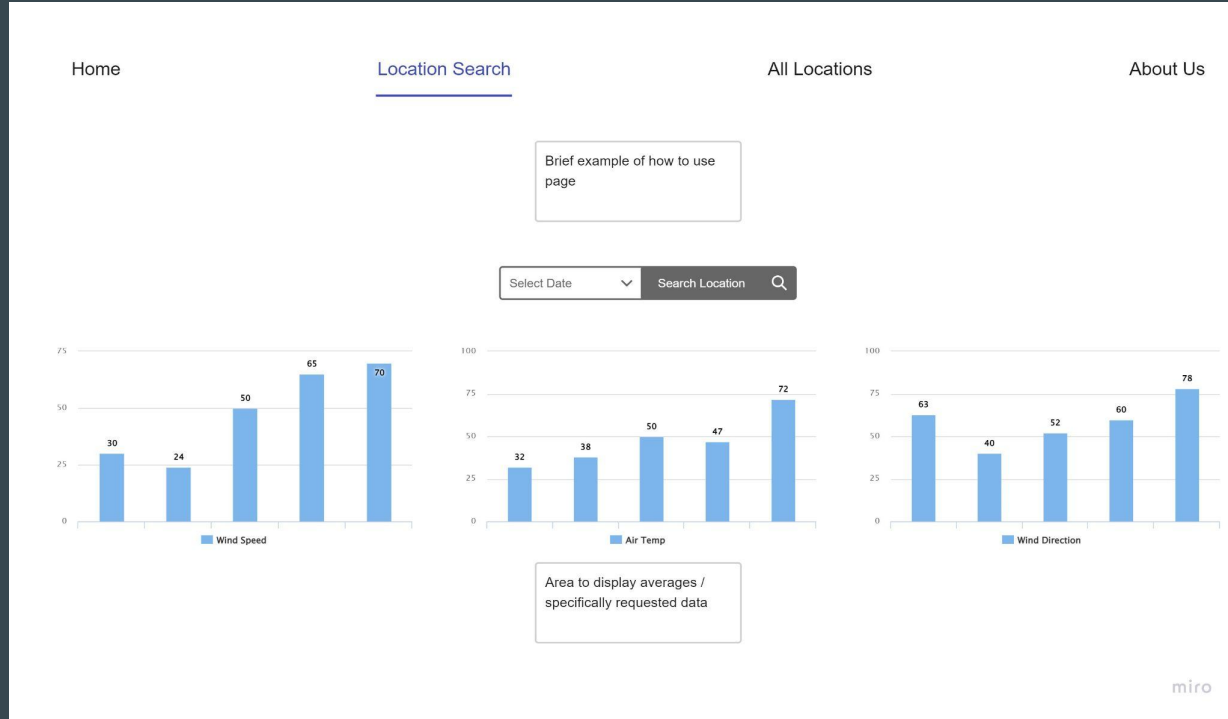
Schedule

February	March	April	May
Begin front-end development	Finish front-end and begin back-end	Finish back-end and get ready to present	Finishing touches

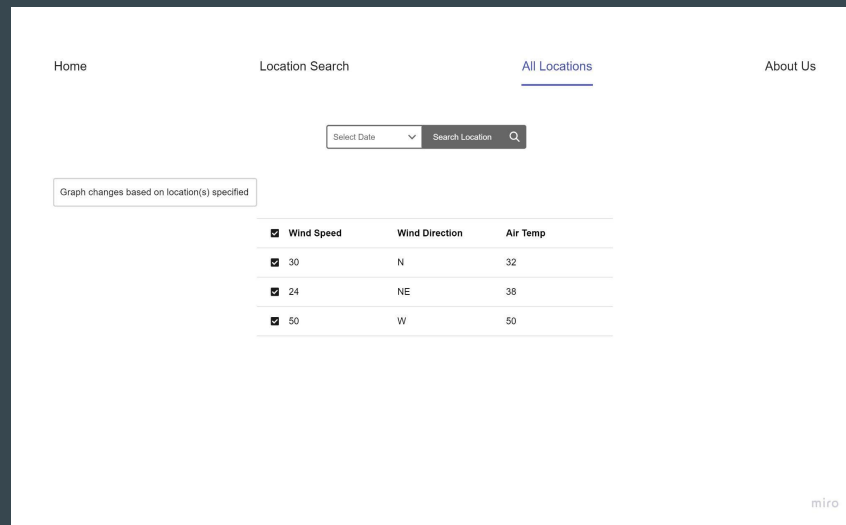
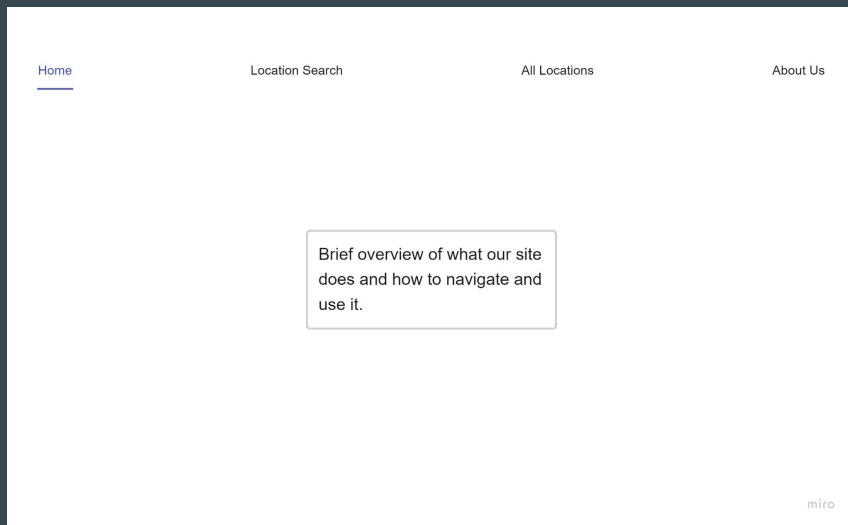
Sitemap



Wireframes



Wireframes



Thx for listening & Any Questions?