WalrusWaves (prototype)

Purpose

Ever found yourself standing at the edge of the water, contemplating whether it's the right moment for a refreshing swim? "*WalrusWaves"* is here to make those decisions a breeze. As an avid winter swimmer, I've often craved a quick and reliable way to access crucial water and weather conditions for my favorite locations, like Espergærde near Helsingør in northern Denmark. "*WalrusWaves*" aims to be the go-to web app that provides not just the air temperature and wind speed but dives deeper into the water conditions—temperature, depth, tide status, and more. It's a personalized aquatic weather report, ensuring that every plunge is both invigorating and informed. Embrace the chill with "*WalrusWaves*"!

Audience

"WalrusWaves" is designed with a diverse set of users in mind, catering to those who share a love for aquatic adventures and a keen interest in staying well-informed about their swim conditions. The primary audience includes:

1. **Water Enthusiasts in General:** Individuals who engage in water-related activities such as swimming, diving, or other water sports and desire accurate and real-time information about water conditions.
2. **Cold Water Swimmers in Particular:** Avid winter swimmers who appreciate the thrill of chilly waters and seek specific details like water temperature, tide status, and wind speed before taking the plunge.
3. **Weather-Conscious Travelers:** People who frequently travel to different locations and want to plan their water activities based on the current weather and water conditions.
4. **Adventure Seekers and Nature Enthusiasts:** For those who enjoy spontaneous adventures and want to explore new places for water activities, relying on comprehensive information for a delightful experience. Also, individuals who appreciate the beauty of nature and wish to align their outdoor activities with the natural elements, ensuring a harmonious connection with the environment.

Data sources

Currently, I am planning to use the stormglass.io API for "*WalrusWaves*" to retrieve essential weather and water condition data. Since the stormglass.io API only provides 10 calls a per day in the free plan, for development and testing purposes, I will mirror the data to my own JSON file instead of using the automatically updated one for this assignment project.

Initial Module list

The first idea for my modules:

Data Fetching Module:

- Responsible for fetching data from the stormglass.io API / my mirrored local JSON
- Handles API requests and responses
- Manages the storage and retrieval of data from the local JSON file during development (possibly using localStorage aswell)

Location Selector Module:

- Allows users to select different locations for which they want to view weather and water conditions
- Provides user-friendly interface for choosing between predefined locations

Weather & Water Condition Display Module:

- Displays detailed weather and water-specific information for the selected location
- Includes components for showcasing air temperature, wind speed, water temperature, wave height, tide status and other relevant weather parameters

UI Component Module

- Manages the overall user interface components and layout to be dynamically created
- Ensures a responsive and visually appealing design for both desktop and mobile views

Animation Module

- Implements animations to enhance the user experience and provide them for UI Module
- possibly transitions and visual effects to improve the overall feel of the application

Error Handling Module

- *Manages errors and alerts the user abut any issues with his requests or other functionalities*

Mocks

Colors/Typography/specific element styling:

- Primary Color: Yale Blue - #023368
- Secondary Color: Cobalt Blue - #014397
- Background Color: Alice Blue - #EAF1F9
- Accent Color: Hunyadi - #F6AE2D
  ------ URL: https://coolors.co/023368-014397-eaf1f9-ffffff-f6ae2d

- Heading Font: Changa (Changa - Google Fonts)
- Paragraph Font: Gabarito (Gabarito - Google Fonts)

Wireframes:

URL Folder with Wireframes: wdd330-walruswaves/wireframes (github.com)

Schedule

Week 4 - Proposal and Project Setup:

- Draft project proposal, including the overview, audience, major functions, wireframes, data sources, initial module list, colors/typography/element styling, and a rough schedule
- Set up the project structure and initial files

Week 5 - Data Fetching and Location Selection:

- Implement the Data Fetching Module to retrieve weather and water condition data
- Develop the Location Selector Module for users to choose different locations

Week 6 - Weather & Water Display and UI Components:

- Create the Weather & Water Condition Display Module to showcase detailed information
- Develop UI Component Modules for the overall layout and responsiveness

Week 7 – Last Styling & Animation, Testing & Improvements:

- Implement the Animation Module to enhance user experience
- Conduct thorough testing and make necessary improvements

URL Trello Board: WalrusWAves Trello Board (jkleine)