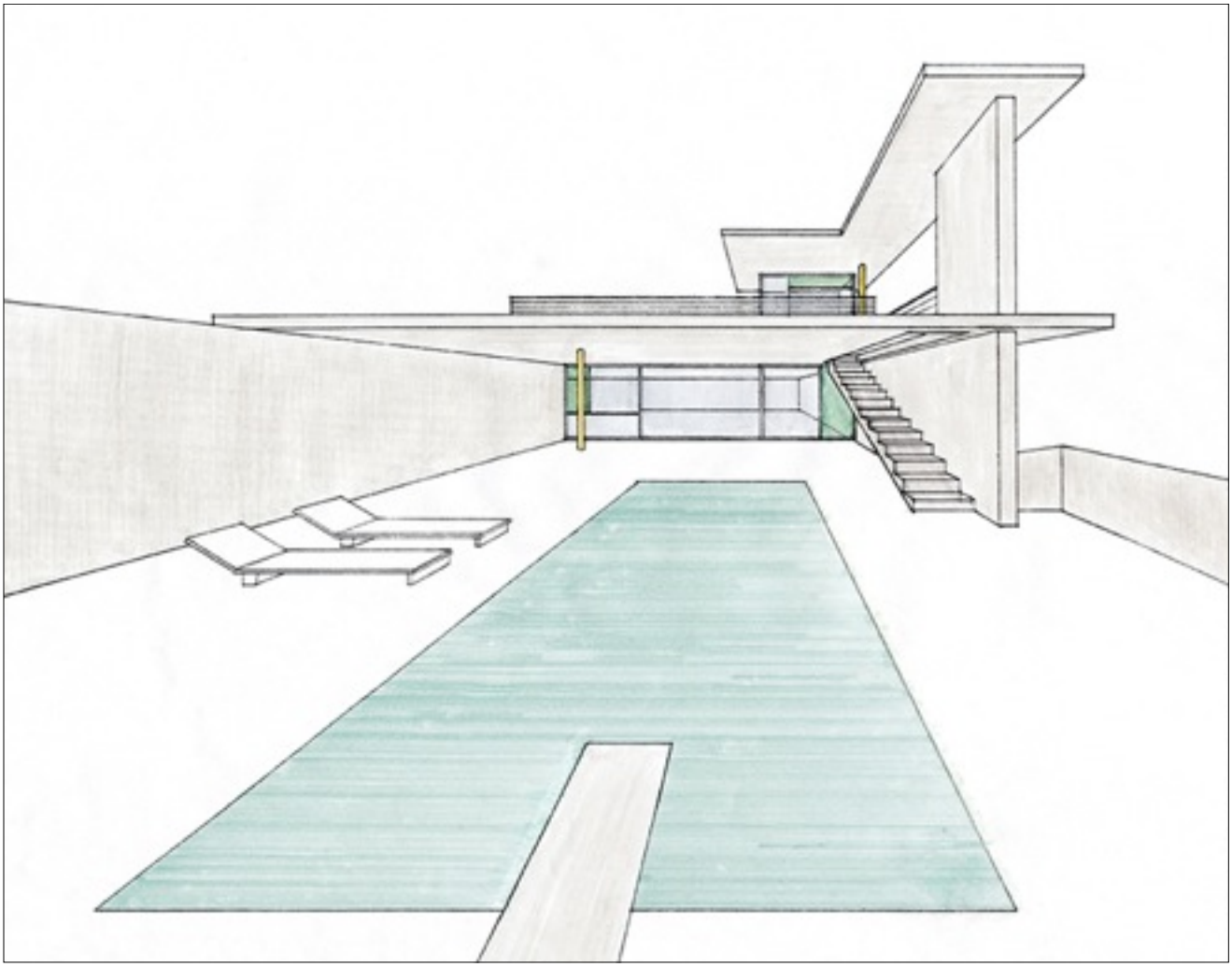


The Beach Lover App

REQUIREMENTS DOCUMENT

Prepared for: The Iron Yard

Front-End Engineering Final Project

By: Brooke Casey

Started: June 3, 2014

DEMO: June 20th, 2014

Charleston, SC

Meet the Beach Lover App

ELEVATOR PITCH

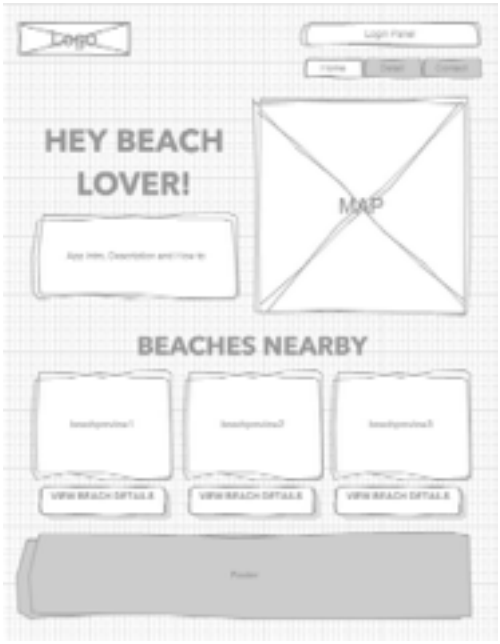
Helps beach goers plan their perfect beach outing by presenting data on nearby beaches including beach characteristics and features, alongside weather, wind, wave and tide conditions and forecast information.

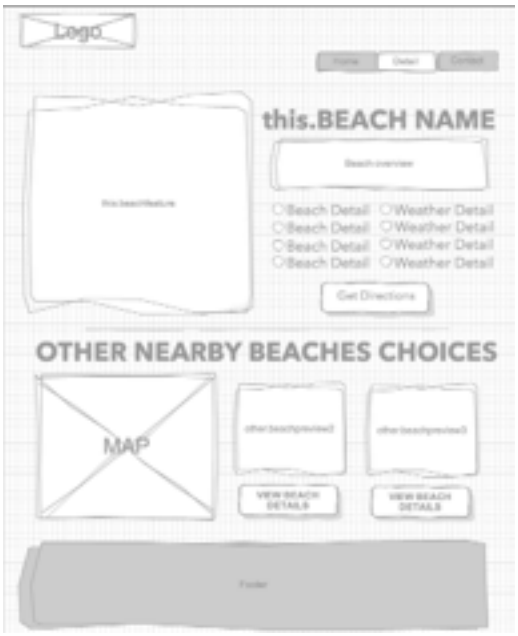
- Find nearby beaches at a glance using a map view
- Identify which beaches have desirable weather & water conditions through map icons
- Review detailed beach characteristics in list format with text
- Get walking, driving, or transit directions to the beach of your choice

TECHNOLOGY

- MapBox.js
- Mapbox API for webservices: (directions, geoCoding) https://www.mapbox.com/mapbox.js/api/v1.6.3/
- MapBox Streets
- TileMill (map design and customization)
- World Weather Free Marine API: https://developer.worldweatheronline.com/
- HTML 5 geolocation
- Firebase
- Angular.js
- HTML/CSS
- Twitter Bootstrap

WIREFRAMES





MOBILE

FUNCTIONAL REQUIREMENTS/FEATURES - MVP

Feature: Provides beach characteristics

- Name of the Beach
- Address
- Distance from user
- Parking availability and location
- Features: ex. Showers availability and location
- Lifeguards on duty and emergency contact info
- Beach rules: dog rules, alcohol
- Handicap access
  - Find your closest beach using list, map, or search tools
  - Identify at a glance which beaches have safe weather and water conditions
  - Get walking, driving, or transit directions to the beach of your choice

Value Statement :

As a user, I want to see details about a beach so that I can choose one that has the features I want.

Assumptions :

Acceptance :

Users will be able to view characteristics about each beach on their device

Notes :

Initially I will likely begin with a seeded list of Charleston beaches with their details.

Story Name/Feature : Identify and display nearby beaches

Value Statement :

As a user, I want to know which beaches are nearby, so that I can view data about beaches that are relevant to where I am located.

Assumptions :

Assumes that users are utilizing a device that allows geolocation. Assumes that users prefer not to travel further than 50 miles to visit the beach.

Acceptance :

User is able to be geolocated and nearby beaches within 50 miles of user display.

Notes :

May need to consider option for if they do not allow the browser to geolocate them or if they want to use the app to plan a beach trip outside of the 50 mile search radius.

Story Name/Feature : Integration with weather data

Value Statement :

As a user, I want to know the weather forecast and water conditions at the beach so that I can decide if the weather and water conditions are desirable and safe for a visit to the beach.

Assumptions :

Assumes that weather data is available for that location. Assumes that the source chosen for the weather data is accurate. Assumes that the weather-station chosen for that location is close enough to be relevant.

Acceptance :

User can view weather information corresponding with the beach they are reviewing.

Notes :

Ideally I would like to provide the following geoCoded weather and tide data:

- Air temperature
- Water temperature
- Wind: average and gusts
- UV index
- Tide predictions
- Wave conditions: wave height
- Rip current forecast

Alternatively I will try Forecast API : https://developer.forecast.io/docs/v2 or

Story Name/Feature : Calculates distance from user to nearby beach

Value Statement :

As a user, I want to know the distance I am from the beach so that I know how long it will take to travel there.

Assumptions :

Assumes users current location is relevant to where they will depart their trip. Assumes that the distance between will be calculated using major roadways and not ‘as the crow flies.’

Acceptance :

The distance between the users current location and selected beach is displayed.

Notes :

Story Name/Feature : Responsive Site

Value Statement :

As a user, I want to information to display in an organized manner on both when accessed on a desktop/laptop or mobile device.

Assumptions :

Acceptance :

Notes :

Utilizing Twitter Bootstrap for this purpose which a mobile first platform.

Story Name/Feature :

Value Statement :

Assumptions :

Acceptance :

Notes :

Story Name/Feature :

Value Statement :

Assumptions :

Acceptance :

Notes :

ROAD MAP V1.0 AND BEYOND

Features to be added :

- Display user generated geoCoded photos
- Integrate traffic data
- Reviews added by users
- Integrate lightning data. Perhaps using the Weatherbug Spark API:
- Integration of beach Webcams :
- Deployment using Firebase (** not required for MVP but desired)
- Social integration to share reviews, comments, messages, alerts and photos
- Firebase SimpleLogin** (login not required for use, only to add and save content)
- Bookmark beaches for easy access
- Invite your friends to join you at the beach using Facebook, Twitter, email and SMS text messaging
- FAQ
- Legalese