**Watersports Hub App**

***Opt A - Bodies of Water Database***

1. **Overview**: Website that allows Watersports enthusiast to come together at one hub to receive up to date information regarding databases for bodies of water to ski on. Thought there are several websites scattered on the web for this, none of them aggregate ratings for each different Watersports discipline all in one site. Will have to use public API to pull in maps (ex. Google) for location base.
   * Later add-ons or build-outs will include; other close bodies of water, local shops and clubs within the specific area of interest. Dynamic features such as Forums and Event Updates based on locations.
2. **Features**:
   * User login
   * Email confirmation
   * Form submission for location, body of water name, discipline, rating, notes
   * Search database by address, body of water or disciplines
   * Exact address validation via autocomplete (using Google Maps)?
3. **Technologies**:

* Python
* Flask
* MySQL
* SQLAlchemy
* Jinja2templates
* JavaScript
* JQuery
* AJAX
* React

1. **What I’ll have to learn**: I will have to learn how/whether I can integrate my existing Python-based login/form-submission website (which I built during Unit 2) with JavaScript and AJAX. I will have to learn how to use data from several APIs (with any luck), in order to integrate a useful user experience EXAMPLE GOOGLE API for location tracking. I also plan on using this project as a way to learn to use React and other front-end UX languages. I also plan to strengthen my css skills along with ‘API integration’.

***Opt B - Watersports Water Signup Form***

1. **Overview:** Website that allows Watersports enthusiast the ability to control the use of a particular body of water use. Example would include an app that registers use of a body of water through a sign-up form that manages/tracks blocks-of-time-users through a sign up form for a particular body of water. This allows users to come together at one hub to receive up to date information regarding current use and conditions of bodies of water to ski on. Though not a complicated app or mind-blowing, the value of it will gauged through on continued reoccurring use for regulation. Most of this will derived from - Ease of use through front-end UX, and clear simple viewable information, in addition to a dynamic features that bring value to the user (ex. Alert system). Will have to use public API to pull in maps (ex. Google) for location base.
   * Later add-ons or build-outs will include; inclusion of more bodies of water to be included into database, google mapping API (which than could be built out to include close bodies of water from designated point of interest, local shops, clubs within the specific area of interest also. Later dynamic features such as forums and updated event calendars that user could interact with to update the system.
2. **Features**:
   * User login
   * Email confirmation
   * Form submission for location, body of water name, discipline, rating, notes
   * Search database by address, body of water or disciplines
   * Exact address validation via autocomplete (using Google Maps)?
3. **Technologies**:

* Python
* Flask
* MySQL
* SQLAlchemy
* Jinja2templates
* JavaScript
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