Features:

- Personal User Accounts
    - Take input from users and store it so they are able to see all information which they have entered throughout the usage of the application. (Milage, Days on water, etc.)
- Users can input usage data
    - Users can input and store how far they boated on a given day and other relevant data.
- Users can view usage history
    - Individuals can go back and view their recorded data to see how many miles they have boated in a certain period of time , how many days they have spent on the water, ect.
- Users can see sections on a map
    - Users can compare mileage, days on water, and conditions during their trip, this can be shown on a map to indicate the route and potential hazards which could be encountered during a specific route.
- Users can share section data
    - Users should be able to share data of specific sections of rivers and be able to generate and share data on specific sections of whitewater, which others can use to navigate.
- Users can see live water levels
    - Current water levels for sections based on USGS gauges will be displayed for users.
- Users can compare their data with other users.
    - Leaderboard of mileage displayed on users profile pages.

Requirements:

1. Multiple unique users will be able to store their data and reference it. All users will have their own private profile that cannot be modified by any other user. This will allow for the app to fulfill its key purpose of letting individuals track their data. This feature must be implemented by 3/14. Success will be achieved when 25 uniquely named individual users can be stored. (Non-Functional).
2. 30 different sections of river will be stored in the database. All users will have access to these sections of the river. This allows the user to reference different sections of the river for the purpose of looking for routes and referencing routes which have been traveled by other users. This feature must be implemented by 3/14 as well, in order to test in conjunction with multiple users being able to store data on their own profile. Success will be achieved if Users are able to successfully reference different sections of the river. (Non-Functional)
3. Users will be able to create and share sections for other users to utilize. All users will be able to reference all other users stored sections to save time when inputting data. This will help make the app more user friendly and encourage users to share data. This will be implemented very early in the development process. Success will be achieved if

users are able to view all other user's saved sections. Task should be completed by 3/30.(Functional)

4. Sections will be displayed on a map. All users will have access to different sections of river, including other user's ratings and potential hazards which were encountered during their trip. This allows the App to include more than one user, by having a shared space where users can track different water levels, potential hazards, and mileage of their trip. This allows other users to see potential issues/data on specific sections of river travelled by other users. This will be useful for all users, so they are able to see each other's information in order to make it easier to plan routes. Task should be compl (Non-Functional).
5. Users will be able to track the number of days that they have spent on the water in the past water year. All users will have access to the number of days they have spent in water and compare them to other users as well. This will help establish a sense of water level fluctuation throughout the seasons. This is especially useful for recording personal data as well as cumulative mileage based on specific routes. This implementation must be done by 3/14-3/30. (Functional).
6. User data will be displayed on a profile page that others can view. This will allow all users to compare themselves to their friends and see where they rank in terms of miles or days. This will be one of the last implemented features. (Functional)

Project Plan:

https://docs.google.com/spreadsheets/d/1WeA_c3Ca2mbwgcZTd9i0lM4tJRQGgeW47oYFBYDnbho/edit?usp=sharing