FLEX Boxers Project Plan

Proof of Concept

Functionality

Users can interact with basic account and ride functionalities through an extremely basic user interface. This includes the following features:
- Create, delete, edit an account
- Add and remove a bike
- Edit a bike's location, availability, price
- See all bikes unfiltered, filtered by location, filtered by availability, filtered by both location and availability
- Create, cancel, reserve, use a ride

Tasks

- Implement accounts
- Implement bike functionality
- Implement ride functionality
- Implement basic UI and integrate with backend

Backup Plan

The key concept is a "ride" which requires having a bike to pick from. In case of emergency, we'd focus on the ride and bike functionalities first, as well as the accompanying UI needed to interact with it. Accounts are not as important as getting the main functionality to work, so we can push it back to the next milestone when we have more time.

Minimum Viable Product

Functionality

Users can use all the basic functionality from before and rate/review other users and bikes. Users will be able to use the website without having to recreate their information every time (persistent database integration). We have a better looking website that's more than forms and responses.

Tasks

- Implement rating/reviewing
- Create and integrate SQL database
- Improve our website to look more like the wireframe

Backup Plan

Since this is the MVP, the website doesn't have to look pristine. The original goal was to have two people working on the frontend, as it is a lot of work to do. Getting the backend complete with the main features is more important, so we can have a not-as-nice website and put the 2nd person on backend work. A "not-as-nice" website could have the HTML completed, but not the CSS.

Final Project

Functionality

Users can use all the basic functionality, rate/review other users, and pay for their rides or earn money renting their bike. Users will be able to navigate our beautiful website and view bikes in both a list and map format. Both riders and owners will feel safe and secure about their information and bikes.

Tasks

- Implement payment system
- Implement map view
- Implement "security" features
- Finalize the website

Backup Plan

The main features we'd definitely like to have for the final product is some kind of payment system in place, the map view integrated into the UI, and a nice looking website. "Security" features involving damage reporting, handling, missing bikes, etc. is a nice thing to have, but not one of the key functionalities of our website, so we'd cut back on those implementations.

Tasks

#	Task	Assigned To	Due Date	Details
1	Implement accounts	Diana	11/15/2019	Sign up/in/out, delete, edit account, user session handling
2	Implement bikes	Jinny	11/15/2019	Add, remove, edit location / availability / price, get bikes, get bikes by location / availability / both
3	Implement rides	Carlos	11/15/2019	Create, cancel, reserve, use a ride
4	Basic UI + integrate w/ backend	Linnea	11/17/2019	Basic HTML forms with submit buttons, output box showing response, loop in the routes
5	Proof of Concept Presentation	All	11/18/2019	Plan and create the presentation
6	Writeup / Documentation	All	11/18/2019	Short (50 word) description of purpose and functionality as a README, ensure good documentation throughout codebase
7	Implement rating/reviewing	Jinny	12/1/2019	Rating and reviewing system on other users and bikes
8	Create, integrate SQL into code	Diana	12/1/2019	Create SQL database for website, integrate SQL commands into backend code
9	Improve UI	Linnea + Carlos	12/2/2019	Create an actual nice looking website
10	Writeup / Documentation	All	12/2/2019	Update the README, ensure good documentation throughout codebase
11	Implement payment system	Carlos	12/8/2019	Add, remove, edit payment methods, figure out how payments should work
12	Implement map view	Diana	12/8/2019	Map view of bike locations, create popup for bike information on click
13	Implement "security" features	Jinny	12/8/2019	Design and implement any safety/security features as needed. Ideas include "GPS" of bike location, ways to contact the owner/rider, etc.
14	Finalize UI	Linnea	12/8/2019	Integrate new features into the UI and make it as pretty as possible
15	Finalize Project	All	12/9/2019	User testing on final product, make last minute changes as needed
16	Writeup / Documentation	All	12/9/2019	Update the README, ensure good documentation throughout codebase