

SlugLoop

Sprint Four Plan

05/24/2023

**Goal:**

The goal for this sprint is to complete the calculations to improve ETA times. We also want our app to save the user’s settings, and also continue providing the UI/UX design. For the front end, we want to see the user’s favorite bus stations.

**Task Listing:**

* **~~1. As a user I want my selected settings to be saved when closing and reopening the app. [4]~~**
  + **~~Use react contexts to save the settings~~**
* **~~2. As a user I want to know if a LOOP bus is arriving soon, so I know about upcoming arrivals. [8]~~**
  + **~~2.1 Backend logic calculate if bus is CCW or CW~~**
    - **~~Use rolling average of previous positions to prevent drift~~**
  + **~~2.2 Backend logic, if certain direction bus is CCW or CW, update next bus stops~~**
    - **~~Careful, bus may drift while stopped at a bus stop, so cannot just use two points to determine if bus is CCW or CW~~**
  + **~~2.3 Store list of SOON bus stops in firebase, and write backend api route to find list of bus stations with bus arriving soon~~**
  + **2.4 Add “arriving soon” label for each loop bus**
* **3. As a user I want to know if a METRO bus is arriving soon, so I know about upcoming arrivals. [4]**
  + **3.1 Call metro api for upcoming buses for a certain stop**
  + **3.2 Map stops to metro stops**
  + **3.3 Display along with loop eta on individual pages**
  + **3.4 Add an “arriving soon” label for each metro bus**
* **4. As a user, I want to see the next time that a loop bus is arriving, not just “Soon”. [16]**
  + **4.1 Create an eta formula based on the current stop (The BTS3 documentation may have some hints)**
* **5. As a user, I want to know whether walking to another stop is faster than taking the metro. [4]**
  + **5.1 Implement location requirements**
  + **5.2 Use current location as well as google maps transit api to check time from current location to destination**
* **6. As a user I want to see a list of favorite bus stops or routes, so I can quickly find my desired bus stop and access relevant information. [3]**
  + **6.1 Implement local storage api to store favorited stop**
  + **6.2 Modify List View to show favorited stops at top**
  + **6.3 Use local storage api from story 1 to store the favorited bus stops**

**Team Roles:**

* Eli: Product Manager
* James: Developer
* Jeremy: Developer
* Ivan: Developer
* Jed: Scrum Master
* Mason: Developer

**Initial Task Assignment:**

* Eli: User Story 2
* James: User Story 3
* Jeremy: User Story 1
* Ivan: User Story 2
* Jed: User Story 3
* Mason: User Story 1

**Scrum Board:**

[**https://trello.com/w/slugloopscrumboard**](https://trello.com/w/slugloopscrumboard)

**Meeting Times:**

TA Meeting: 1-1:45 Wednesdays