

## UCSC Bus Tracker - Release Plan

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### **High-Level Goals**

- Users can track on-campus buses and their own location using a detailed map
  - Bus stops are marked
  - Bus routes can appear
  - Buses rotate based on the direction they are traveling
  - Points of interest are marked on the map
- Users can view the overall bus schedule for both metro and loop buses
- Users can view bus ETAs at certain stops
- Users can center the map to their location

### **User Stories**

- **Sprint 1 (1/27 - 2/9):**
  - User Story 1: (6) As a student, I want to know the exact current location of the campus busses, so I can tell if one is coming.
  - User Story 2: (5) As a user, I want to know where I am relative to the bus stops, so I can figure out the best route to my destination.
  - User Story 3: (7) As a user, I want to refer to an accurate and detailed map.
  - User Story 4: (3) As a developer, I want to follow Scrum and have good documentation, so that I can develop the product efficiently.
  - User Story 5: (6) As a user, I want to be able to view a popup when I tap on a bus stop.
- **Sprint 2 (2/10 - 2/23):**
  - User Story 1: (5) As a student, I want to know the official bus schedule so I can plan my own schedule effectively.
  - User Story 2: (7) As a user, I want to interact with a nice-looking and intuitive UI.
  - User Story 3: (5) As a user, I want to be able to switch between dark and light modes.
  - User Story 4: (10) As a user, I want to know bus type and the direction it's going.
- **Sprint 3 (2/24 - 3/8):**
  - User Story 1: (8) As a user, I want to view an accurate ETA table for each bus/bus stop.
  - User Story 2: (7) As a user, I want to interact with a nice-looking and intuitive UI.

- User Story 3: (5) As a user, I want to be able to switch between dark and light modes.
- User Story 4: (10) As a user, I want to know bus type and the direction it's going.
- User Story 5: (10) As a student, I want to know how crowded buses are.
- **Sprint 4 (3/9 - end of quarter):**
  - User Story 1: (4) As a student, I want to be able to download the bus tracker app on the official Apple App Store.
  - User Story 2: (5) As a user I want my app to be bug-free and work smoothly.
  - User Story 5: (5) As a student, I want to know how crowded buses are.

### **Product Backlog (for version 2.0 and beyond)**

- As a student, I want to have the UCSC Bus Tracker app on Android and Web so that I can use my preferred platform.
- As a student, I want to use an automatic route planner so that I don't have to figure out the best route myself.
- As a student, I want to have notifications to alert me of bus activity, changes in schedule, etc.
- As a user, I want to know when I have to leave in order to make it onto a bus in time.
- Implement more accurate ETA algorithm.
- Tapping on a bus should highlight its route on the map.
- Tapping on a bus should display its type (loop, upper campus, etc.)