

CS 4600

Senior Project: Milestone 1

1/31/2024

Keaton Brinkerhoff

Milestone 1

Bicycle Route Tracker

Progress:

Priorities for the project in order:

Yellow Highlight means completed

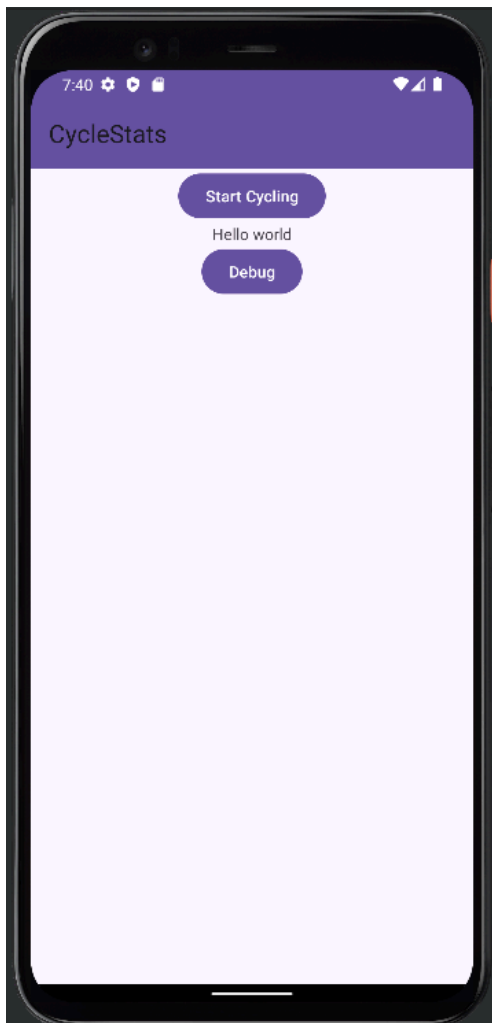
1. Create an initial hello world app
2. App has a start and stop functionality with a timer
3. Starting the timer also causes the device to start periodically pinging and saving gps coordinates.
4. Google maps integration to visualize the path taken after stopping the route tracking.
5. Saving the data locally
6. A main screen that contains a sliding collection of previous routes taken and their stats
7. Clicking on an individual route will pull up the Google maps api visual
8. Add ability to export data to csv.

Milestone List

Weekly Plan:

- 1/9-1/16
 - Write and submit proposal(s if this flops)
- 1/16-1/23
 - 1/17 Final proposal submission
 - Receive the green light for proposal
 - Build presentation with Google slides and Figma
 - 1/22 Submit presentation
 - 1/23 and 1/25 Presentations
- 1/23-1/30
 - Install Android Studio
 - Create Hello World app
 - Add timing functionality, with start and stop ability
 - 1/30 Presentations
- 1/30-2/6

- Add GPS pinging and save coordinates while timer is running
 - Save the data locally to a sqlite database
 - 2/1 Milestone Checkpoint 1
- 2/6-2/13
 - Add route summary page that appears after a session finishes
 - Include the Google maps route api
 - Display statistics of ride
- 2/13-2/20
 - Test the path tracking and multiple rides
 - Test a short path .5 to 1 miles
 - Test a longer path 2 to 5 miles
 - Test on only roads
 - Test with some paths like the mayors loop
 - Check other modes of transportation for fun
 - Try walking
 - Try driving
 - 2/15 Milestone Checkpoint 2



Difficulties:

N/a