

Team Number: Team 6

Group Members: Sriram Alagappan, Truman Byrd, Paige Gibson, Colette Montminy

Application Name: Route Runner

Contributions

Sriram Alagappan (**Release:** 25%, **Total:** 25%)

- **Implemented route drawing feature to display it on the map**
- **Retrieved directions for route and displayed first direction on screen**
- **Retrieve and collect nearby points of interest a user passes by during their run. Points are displayed on a pop-up to the user and stored locally.**
- Created run page storyboard & code
- Implemented MapKit to display the user's location and calculate stats
- Styled run page
- Added route template to home page

Truman Byrd (**Release:** 25%, **Total:** 25%)

- **Implemented route finding in the RunCreationViewController**
- **Multiple bug fixes, including the navigation bar's invisible icons**
- **Helped add Firebase Firestore support for loading & storing user data & run data**
- **Created new UserData class for handling user data**
- Created basic history storyboard & code
- Created basic previous run info storyboard & code
- Created RunData class to encapsulate information about a specific run
- Fix background image

Paige Gibson (**Release:** 25%, **Total:** 25%)

- **Installed Firebase packages to project**
- **Created Registration view controller (UI and swift file)**
- **Implemented Firebase authentication to support registering new users and logging in to an existing user**
- **Added simple UI details on profile page**
- Created login screen fields
- Created Tab Bar and embedded the Home Screen, Settings Screen, History Screen, and Profile Screen to be accessed through the tab bar; spent time debugging this with Dr. Bulko in office hours
- Created and implemented the Profile Screen storyboard and view controller files

Colette Montminy (**Release:** 25%, **Total:** 25%)

- **Researched ways to create the route finding algorithm**
- **Implemented a class to handle Text to Speech**
- **Fixed the image grid issue on the profile page**
- **Helped Truman with storing runs on Firebase and with the UserData class**

- **Helped Truman work on storing and querying user profile data**
- Created settings and profile settings storyboard and code pages
- Implemented observers to swap styles based on the dark mode toggle
- Implemented dark mode toggle and UserDefaults tracking of the variable
- Implemented distance toggle and UserDefaults tracking of the variable
- Added logo to loading screen

Deviations

- We were unable to fully complete the navigation steps and text to speech for runs. We did implement displaying the route, finding the navigation steps themselves, and creating a class for TTS; however, we were unable to figure out how to make each step display individually and be read out when a user crosses it. We plan to go to office hours and research a bit more to try to find a good way of implementing this in order to get it done in time for the final release.
- We were unable to find a good way to populate the data in the user profile settings with the user data from Firebase. We're still researching how to effectively query and store data into the database, so we should have this worked out by the final release.
- Created runs/user data do not show up in the app yet; a lot of work was done building in firebase support, and we plan on fetching a signed in user's data for a custom experience for the final release. Currently, on run creation there is a segue to the Run screen with the newly created run.