

209-7

Team Agents 007

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Project Milestone 2

Project Features

- Sign in
 - Allows 'sign in' functionality - which entails creating a personal account w/ user and password. Alongside this, baseline functionality will include resetting your password, resetting your username, etc. Each individual will also be able to store their personal statistics tethered to their account.
- Routing
 - An intelligent routing algorithm that allows more than just getting from point A to point B, it allows you to just pick a distance you want to go and gives you a path.
- Mobile App
 - The ability to access and use the app (with full functionality) via a smartphone
 - Allows you to manage your account, see your route, see your stats, and follow your route with GPS integration.
- Leaderboard
 - Being able to see top distances, most time spent on a certain route, etc. Will have local/global results based on location proximity.
- Route rating
 - If you like a certain route you are able to give it a rating out of five, share the route, and have others rate it as well.
- Route saving
 - The ability to save a specific route that has been set by the app to the profile of the user. This allows them to access that specific route again if they so desire.

Requirements

Sign-In

Functional:

When a user signs in on a new device, the app must require a login to access that profile's information

App must show the username and password entry lines and a "login" button when signing in

App must recognize incorrect login information and well as correctly process a correct sign in

Non-Functional

The app must show an incorrect login message within 1 second of a login attempt

After 5 attempts, the app will show a, “forgot password?” message and give the user an option to reset the password

The app must change to a loading screen as soon as a correct login in processed

User Story

As a user, I want to be able to login into the app so that I can keep the information I have saved on my profile secure.

Routing

Functional

When utilizing the app, the software will display a map of their current location, based on location and range specifications.

When specifying a route, the application will dynamically display suggestions of previously traversed paths.

Non-Functional

The app must show a loading icon as soon as the request for a new route is processed (under 0.5sec)

The app must show an animation of searching for routes or at least indicate the fact that it is looking for a route

User Stories

As a user I want to be able to quickly find routes starting at my current location that are new and that I’ve traveled before.

Mobile App

Functional

The graphical user interface should display all prominent features, allowing for fluid interface navigation.

The gui should display user information and allow for easy accessibility through stored data.

Non-Functional

The app should be able to handle multiple users at a single point, allowing users to have personal instances of the application.

The app should be able to allow for individualized instances, with some personalization options, such as specific borders/colors/etc.

User Story

The user will be able to access the app on their phone so that they can easily access and carry around a device that can keep track of their GPS and easily map out where they want to go.

Leaderboard

Functional

The leaderboard must give the option to the user to upload their Routes to the leaderboard

The leaderboard must be a visible documented list based on a set score

Non-Functional

The leaderboard feature will temporarily save the user's last route

There should be a side button that allows the user to share their last route to the leaderboard.

The leaderboard should then document that route and it's statistics with the username, and display it in the order based on the set numeric score

User Story

The user has just finished following their route, and upon reopening their app and finishing their route, they will be prompted with a screen showing their time and distance, as well as an option to share this route to the leaderboard. The user then presses this button, then goes to view the leaderboard, where they can see a list of the top scores of time per distance, as well as the usernames of the users who posted that route. There the user can find their name and place on the leaderboard through scrolling through the names until they find theirs which is highlighted.

Route Rating

Functional

Having the user rate the route from 1 to 5 stars once the route is completed.

Non-Functional

The rating system must not take more than 3 seconds to show up

The app will apply the rating to the route, allowing the user to see the score you set for it.

If a user rates the same route more than once, the rating will be set to the average of all of the ratings.

User Story

The user has just finished their route, and very shortly after clicking “End Route,” a rating system pops up asking the user to rate the route they just took. They can tap on one star, two stars, three stars, four stars, or five stars. After tapping one of the stars to set a rating for the route, the rating pop up closes, leaving the user to see the page/screen that they were previously on.

Route Saving

Functional

The user will have the option of saving a route they have just done or they are doing.

When saving they are able to create a name for it.

They will also be able to access old routes before creating a whole new route.

As well as having these saved routes on other devices.

Non-Functional

The app will include the option of saving the route you’re on or just did, as well as accessing saved routes. All linked to your profile.

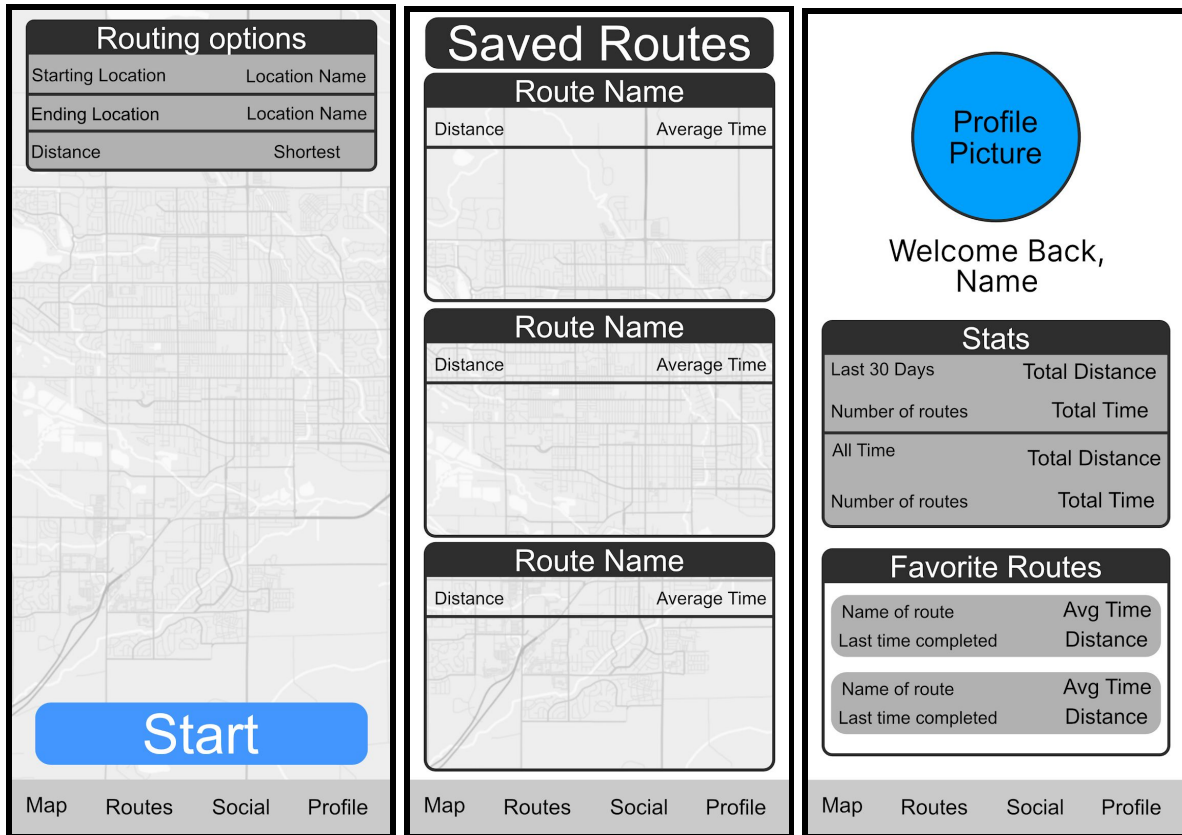
User Story

The user will be able to click on “Save Route” while still on the route, or “Save Previous Route” after having come to the end of it. On both you will be prompted with an option to name it. You are also able to access any route previously saved from any device as long as you are signed in, from the “Saved Routes”.

Project Plan

[Link to Jira Board](#)

Wireframe



Individual Contributions For This Milestone

- Jaryd Meek created the wireframe, and helped setup the project plan on the JIRA board.
- Elena Smith contributed to the Requirements section of this Milestone and helped set up the project plan on the JIRA board.
- Manuel Arellano added to parts of the write up in the milestone project 1 and 2 as well as writing features/issues Git and Jira.
- Emily Parker contributed to the requirements and project feature list.
- Weige (Cody) Wong: contributed to the function and non-functional requirements for the features and wrote user stories for some of them as well. Also added sprints and issues to the JIRA board
- Vineet Belur contributed to the requirements section.

Individual Contribution PLAN For The Overall Project

As shown in the [JIRA board](#), the plans are as follows -

- Jaryd Meek - iOS Frontend Design
- Elena Smith - Website Frontend Design
- Manuel Arellano - Integration layer
- Emily Parker - Integration Layer
- Weige (Cody) Wong - database and storage of user data

- Vineet Belur - Routing Algorithm