

Progress Report

- Increment 1 -

Group #1

Please use this template to describe your progress on the group project in the latest increment. Please do not change the font, font size, margins or line spacing. All the text in italic should be removed from your final submission.

1) Team Members

*Please write the **name** of all the team members, their **FSU IDs**, and **GitHub IDs** here.*

- Robert Jones
 - FSUID: rfj15
 - GithubID: 27457370
- Joey Jimpie
 - FSUID: jrj15d
 - GithubID: 16617933
- Andres Gonzalez
 - FSUID: aag15e
 - GithubID: 43159534
- Keegan Webser
 - FSUID: kmw18g
 - GithubID: 31144952
- Nicholas Ford
 - FSUID: nhf17
 - GithubID: 7431333

2) Project Title and Description

- FSU Parking and Transportation -

This application will consolidate FSU's various transportation apps into one easy-to-read app. The app uses Starmetro's Transloc api for FSU bus data and FSU's parking api for parking garage data. The data will be represented on an Android app with two main views. The first view is for parking garage information and the second view is for bus route information. The Google Maps api will also be integrated for the parking view. This will allow users to easily identify garages on a map and find the quickest route from their current location. The bus view will show all relevant FSU busses and their predicted time until a particular stop (specified by the user).

3) Accomplishments and overall project status during this increment

- Identified a source for the parking data (refreshes every 5 minutes).
- Identified a source for bus route data (refreshes every api call).
- Started logging parking data from FSU's parking api
- Created a working template for the Android GUI
 - View 1 created (parking data)
 - Displayed parking lot in cardview
 - View 2 created (bus data)

- Created a class for interacting with Transloc api
 - Gets bus arrival information, bus stops information
 - Gets the predicted time until a bus arrives at a particular stop

4) **Challenges, changes in the plan and scope of the project and things that went wrong during this increment**

One challenge faced this iteration is with the Uber/Lyft api keys. Initially we wanted to integrate Uber and Lyft information into the system, but Uber and Lyft do not allow public access to their API without permission. Currently, we are not focusing on this integration and are focusing on other aspects of the project.

Another issue came up when creating the application was dealing with fragment views. When certain views are stacked on top of each other the user cannot interact with any other view than the top most. Even when the views are separated by fragments.

5) **Team Member Contribution for this increment**

*Please list each individual member and their contributions to **each of the deliverables in this increment** (be as detailed as possible). In other words, describe the contribution of each team member to:*

- Joey
 - Progress Report
 - Contributed to project title/description
 - Contributed to accomplishments/challenges
 - R&D Document
 - Contributed to the use case diagram
 - IT Document
 - Contributed to programming languages
 - Source Code
 - Contributed to python prototype of bus route class
 - Contributed to java Bus_Route class
 - Video
 - Contributed one minute to the demo video
- Robby
 - Progress Report
 - Created the initial outline for the app in Android Studio
 - Contributed to accomplishments
 - Source code
 - Android application setup with parking and bus tabs
 - UI design
 - Video
 - Contributed one minute to the demo video
- Keegan
 - Progress report
 - Found and secured the API for fetching parking and bus data
 - Wrote prototype python code for reading from the parking and bus data
 - Logging parking data for data analysis.
 - Source code
 - Reading and processing parking and bus data

- Wrote a logger for bus data
 - Video
 - Contributed one minute to hte demo video
- Andres
 - Progress Report
 - Wrote up plans for next increment
 - Contributed to accomplishments
 - R&D Document
 - Functional and Non functional requirements
 - IT Document
 - Platforms, API's, and Databases part
 - Execution based non functional testing part
 - Source code
 - created sample app to interact with Google maps API
 - Video
 - contributed one minute to demo video
 - put all of the members video contributions together to create video
- Nick
 - Progress Report
 - Contributed to accomplishments
 - Contributed to challenges
 - Source Code
 - Added Recycler view to display items
 - Added Card view to recursively display items
 - Context Menu for Announcements and Information
 - Video
 - Contributed one minute to demo video

6) Plans for the next increment

We plan to have a rough demo of the app, with all the features roughly implemented. We also wanted to start working on the UI and some of the design aspects of the app. We should also have enough data logged to start working on the pattern recognition feature, which will use data over the past 2 months to show peaks in traffic flow.

7) Link to video

<https://youtu.be/jjieRrM0qFI>