

Software Requirements and Design Document

For

Group <1>

Version 1.0

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1. Overview

Give a general overview of the system in 1-2 paragraphs (similar to the one in the project proposal).

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).

We will also have a pattern recognition feature that will take data currently being collected to give information on what times are expected to see high volumes in traffic.

2. Functional Requirements

*List the **functional requirements** in sentences identified by numbers and for each requirement state if it is of high, medium, or low priority. Each functional requirement is something that the system shall do. Include all the details required such that there can be no misinterpretations of the requirements when read. Be very specific about what the system needs to do (not how, just what). You may provide a brief design rationale for any requirement which you feel requires explanation for how and/or why the requirement was derived.*

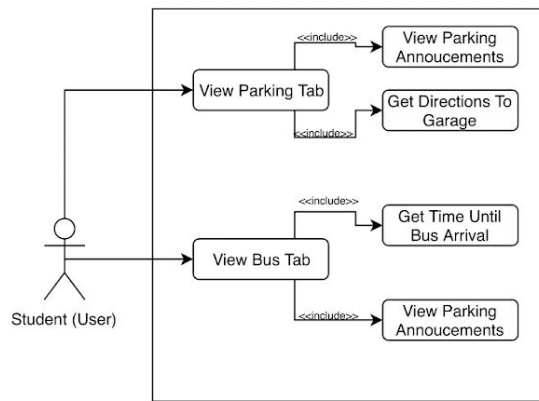
1. Display Parking information/High priority
2. Reroute feature to Google Maps/High priority
3. Display Bus route information/High priority

3. Non-functional Requirements

*List the **non-functional requirements** of the system (any requirement referring to a property of the system, such as security, safety, software quality, performance, reliability, etc.) You may provide a brief rationale for any requirement which you feel requires explanation as to how and/or why the requirement was derived.*

1. Avoid application crashes
2. Verify that the data being scrubbed is up to date

4. Use Case Diagram



5. Operating Environment

The system will be operating on Android OS

6. Assumptions and Dependencies

- Java JSON parsing library (org.json)