# Software Implementation and Testing Document

# For

# Group <1>

Version 1.0

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## 1. Programming Languages

*We're using Java and Python for the majority of this project. Java in Android Studios and Python for scrubbing the data and pattern recognition. Python is best for prototyping, is intuitive, and easy to use.*

## 2. Platforms, APIs, Databases, and other technologies used

*Google Maps API for finding directions to a particular garage. The platform is going to be Android. We're also using the StarMetro bus tracking to track a particular bus route, along with the FSU Parking and Transportation information displayed on the garages themselves.*

## 3. Execution-based Functional Testing

*We have not done any functional based testing as of now.*

## 4. Execution-based Non-Functional Testing

*The Google Maps portion of the project has been tested and checks the device it's running on to make sure Google play services are up to date. Other than that not much else as far as non-functional requirements go have been tested.*

## 5. Non-Execution-based Testing

*We have gone over some of the basic code structure for how we indent to scrub the data from the FSU Parking and Transportation site. This code is in Python and reads a JSON file that is updated every 5 minutes to check the data of a given garage. We've also gone over some of the Java code for the app itself and how its going to work with the other activities.*