**Test Driven Development Roadmap**

**When is TDD Occurring?**

All feature of the backend will be tested. Part of refactoring code from the first sprint all the java classes will be tested.

Java classes: Database, Helper, LocationManager, Procedure

**When is TDD Not Occurring?**

No unit tests will be ran on JavaScript or front end code.

**What tests are occurring?**

­­Database class:

* **Test Connection**- Testing the connection to the database is successful
* **Test Queries**- Testing the queries to the database are correct and return what is expected

LocationManager Class:

* **testGetUserCoordinates** - Testing function for getUserCoordinates to see when given an address if the function geocodes the coordinates correctly
* **testFindProvidersInRange** - Testing function findProvidersInRange to see when a list of results, a maximum distance and a start point is given, if the function filters and returns the correct procedures in regards to the parameters given.

Helper Class:

* **testDistance** - Tests the function distance to see when two sets of coordinates are given does it return the correct distance

Procedure Class:

* **tests for all 11 getters and setters**

**How will the tests be monitored?**

Tests will be run after every feature is added, to continually check correctness of the program. Tests will be satisfied when there is a 100% success rate of the tests.