

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 regarding 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
- **testGetResult**- Test function getResult to see if when giving a query does it return the correct value
- **testGetCoordinates()**- Testing the function get Coordinates to check if given an address can the function return the valid coordinates
- **testGetListInRange()**- Testing function getListInRange to check when given a max range to find procedures can the function return all the operation within the range given only.

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.