

# System and Unit Test Report

**Slug Park**

**Brain Swans**

11/30/15

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- A. Sprint 1- User Story 2: As a Developer, I need to set up a database to store information about available parking spaces.

SCENARIO 1 - Counter updates database, increment value

1. Start Counter app.
2. Click the "+" button.
3. Counter updates the database.
4. Counter gets new value from database and displays value.

SCENARIO 2 - Counter updates database, decrement value

1. Start Counter app.
2. Click the "-" button.
3. Counter updates the database.
4. Counter gets new value from database and displays value.

- B. Sprint 1- User Story 3: As a Developer, I need to create an intuitive Android UI to efficiently display the available parking spaces to the user.

SCENARIO 1 - Display all parking lots

1. Start Slug Park app.
2. Click first screen to continue.
3. Screen displays Overview of all parking lots in the following order: Core West, North Remote, East Remote, College 10, Crown, Health Center. Progress bars show spots taken.

SCENARIO 2 - Display Google Map

1. Start Slug Park app.
2. Click first screen to continue.
3. Click on Core West.
4. Google Map is displayed on top half of the screen with the location of the Core West parking lot.

- C. Sprint 2- User Story 3: As a user, I need to retrieve information from the mobile app so I can view the available parking spots.
- D. Sprint 2- User Story 6: As a developer, I need to fetch data from the database so the app can be updated in real time.

SCENARIO 1 - Counter updates progress bar on Overview by incrementing spots taken

1. Start Counter app.
2. Start Slug Park app.
3. Click to navigate to Overview of parking lots.
4. Increment Counter by 1.
5. Number of available spots should be down by one for Core West's progress bar at top.

SCENARIO 2 - Counter updates progress bar on Overview by decrementing spots taken

1. Start Counter app.
2. Start Slug Park app.
3. Click to navigate to Overview of parking lots.
4. Decrement Counter by 1.
5. Number of available spots should be up by one for Core West's progress bar at top.

SCENARIO 3- Counter updates progress bar on ParkActivity by incrementing spots taken

1. Start Counter app.
2. Start Slug Park app.
3. Click to navigate to Overview of parking lots.
4. Select Core West.
5. Increment Counter by 1.
6. Number of available spots should be down by one.

SCENARIO 4- Counter updates progress bar on ParkActivity by decrementing spots taken

1. Start Counter app.
2. Start Slug Park app.
3. Click to navigate to Overview of parking lots.
4. Select Core West.
5. Increment Counter by 1.
6. Number of available spots should be up by one.

# Testing - Unit Test Report

## UI Module

- Test Activity Switches
  - Rapidly launching and terminating app for hiccups.
- Progress Bar Updates
  - Animation between different values
- Google Maps Testing
  - Google Maps scrolling
  - Google Maps Launch
  - Google Maps Navigation

## Database Module

- Fetching Data
  - Increment and decrement database to simulate busy network traffic.
  - Returns unknown values
- Pushing Data from Counter
- Stress testing

## Graphics Module

- Graphics Scale
  - Test on different screen sizes

## Firmware Module

- Versions
  - Test on different Android versions

## UNIT TESTS:

Shrey Valia - UI Module

Ramin Ebrahimi- UI Module

Curtis Liew- Firmware Module

Peter Kotik- Database Module

Aman Mangalore- Graphics Module

Danielle Positeri- Database Module