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| SMP |
| Super Points  Test Plan |
| SuperPoints |
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| **John Hoang**  **Oliver Jang**  **Harman Minhas**  **Henry Jiang** |

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# Document Version

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| **1** | Created | 03/03/2019 | Oliver Jang |
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| **3** |  |  |  |
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# Introduction

## Purpose

To propose a Testing Solution for the Super Points project.

## Team contact information

SMP

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## Description

Super Points is an app that rewards shoppers based on frequency and duration of visits to their favourite businesses. Shopper are awarded tiers for each business they visit based on frequency and duration of visits. Businesses can create promotions for their various tiers of shoppers. These promotions will appear in the shopper’s app and will pop up as a push notification when users pass by the business on the street. Business will have the ability to view some statistics on their shoppers: frequency and duration of visits, clicks on their promotions, and tier distribution.

Super Points will allow businesses to reward their most valuable shopper with promotions and deals. As well, make finding the best deals at shopper’s favourite stores easy by reminding shoppers of all the promotions that business have as they walk by.

# Test Plan

## Overview

The main components that will require thorough testing in this project are the database connection, the Bluetooth beacon ranging, and location services area detection. Additionally, all of the business logic built into the app will undergo thorough testing to ensure all logic if functioning correctly. The testing of the database connection will be done by Henry using PHP pages that act as the intermediator between the app and the database. This testing will be done throughout week 9 and 10. The location services and Bluetooth beacon testing will be performed by John and Oliver respectively by setting up areas/beacons checking results of the app. These will be tested throughout week 10 and 11. The overall business logic testing will be done as the logic develops with a final app wide testing phase occurring in the last month of the project. This testing will be covered by the whole team.

## Deliverables

No specific deliverables will be created from the testing process. App functionality can only be delivered to the client if the specific functionality has passed all testing.

## Resources

Large amounts of test data will be required to do the testing. Testing the database, Location services and Bluetooth beacon will require miscellaneous dummy data. This dummy data does not need to be an accurate representation of the actual data to be used, but must still be realistic. The testing of the business logic must be done with data that accurately represents actual data that may be used after deployment.

## Approach

The business logic testing will be done through use cases to ensure that all potential workflows function properly and yield the correct results. The database, Location services and Bluetooth beacon testing will be done based on returned data. If the application returns the expected results after being run it will be considered a pass on the test.

# Test Cases

* Database testing:
  + Based on the requested data, does the database return the expected data?
* Location Services testing:
  + Does the app correctly display a user’s location?
  + Does the app alert the user upon entering a geographical area?
* Bluetooth Beacon testing:
  + Does the app correctly approximate distances from Bluetooth beacons?
* General App Business Logic testing:
  + Can users login to the app into their appropriate designations (customer or business)?
  + Do all workflows for users work correctly and return expected results as per the project deliverables?