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| SMP |
| SuperPoints  Stage Plan  4 |
| SuperPoints |
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| **John Hoang**  **Oliver Jang**  **Harman Minhas**  **Henry Jiang** |
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## Overview

Stage 4 will be a refinement and testing stage. We have created the core of the product, the user side of the application. The remaining primary aspect is the business side. Implementation of the core functionality in relation to the business should be much easier as it will be built upon the foundation created for the user portion of the application. This will include basic analytics in tabular form, allowing businesses to view their most frequent shoppers, and number of visits given a time period. This will build on our PHP scripts, and will be created in the form of two basic queries that simply select and order from tables in our database. We will also add the functionality to add/edit/and deleted promotions. These will all be incorporated, logically and visually into the GUI. We will also concentrate on making our app visually appealing during this period. Once these aspects have been introduced an end-to-end workflow between business and customer should be established. This represents our final goal before the additional 5 week period.

During our testing of the workflow, we will simultaneously create the notes for the user documentation for the application. These will be short and simple guides as the UI itself is quite simplistic and intuitive in design.

Our client will be unable to attend our final presentation on April 9th, 2019 as he is busy. We will compromise by having a full in-person fleshing out of the application and its direction during that 5 week period.

## Outcomes

We will have established the end-to-end workflow, have a somewhat visually appealing application whose functionality will be outlined in a minimalistic user guide. We will do thorough field testing in order to ensure all newly integrated parts are functioning as expected as well as to expand on our previous testing with Bluetooth/Location services. We will test at BCIT, most likely the upper floors of the library as there are shelves that would mimic experiences found in stores (between aisles). Location services will be installed into an Android device as previously done and we will walk towards a test location and testing the push notifications upon entering a certain proximity of the location. Businesses will be allowed to register as businesses, enter their promotions with a name, a description, and a minimum point boundary. They will then be able to view their best customers, and the analytics derived from SuperPoint shoppers at their stores.

At the end of this stage we expect our application be presentable visually as well.

## Dependencies

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| **Dependency** | **Deadline** |
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## Deliverables

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| **Deliverable** | **Description** |
| Location Services Code | Refinement based on field testing |
| Documentation | All the usuals |
| PHP Script | Scripts to add/edit/delete promotions, retrieve, add points to users for a business |
| Bluetooth Code | Refinement based on field testing |
| Analytics | Both the PHP scripts necessary to perform the correct queries as well as an appropriate representation in the GUI |
| GUI | Make more visually appealing, add more functional elements in the form of the business interfaces necessary to call the PHP scripts |

## Work Breakdown

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| **Owner** | **Description** | **Completion Date** |
| WEEK 12 | | |
| Henry | PHP scripts to add/edit/delete users/businesses/promotions | 03/28 |
| Harman | GUI activities for business workflow/ aesthetic appeal | 03/28 |
| Oliver | Analytics/Bluetooth refinement | 03/30 |
| John | Location refinement/Testing/Integration of scripts | 03/30 |
| Oliver | Client minutes | 03/27 |
| Harman | Team minutes | 03/27 |
| John | Estimates and Time actuals | 03/30 |
| Harman | Weekly Status Report | 03/30 |
| Henry | Risks and Technical Issues | 03/30 |
| Henry | Supervisor minutes | 03/27 |
| WEEK 13 | | |
| Everyone | Full testing and refinement | 04/06 |
| Henry | Any deliverables related to database that are found to be necessary still | 04/04 |
| Harman | Any deliverables related to GUI that are found to be necessary still | 04/04 |
| Oliver | Any deliverables related to Bluetooth and analytics that are found to be necessary still | 04/04 |
| John | Any deliverables related to Location services that are found to be necessary still | 04/04 |
| Everyone | Visit TSQB and field test the application in the environment we are demoing in | 04/01 |
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