To: Mr Teo Tse Tsong

***SIP Report structure for***

***DU based (in-house) students*** *(delete this before printing)*

From: Pow Rei Young

Date: 13/9/2016

Title: S.I.P. Report

**1. Introduction**

**1.1 Describe briefly the situational background and the general purpose of the attachment/ in-house SIP**

The purpose of the attachment is to help the elderly with mental illnesses, like alzheimer's disease or dementia. They may forget where they are when they are outside or they may forget what they were even doing in the first place, this leads to the elderly being lost or wandering off. So the project is meant to create an application that allows friends or loved ones to locate the elderly anywhere, letting their loved ones to find and help the elderly when they start getting lost or go missing for a period of time.

**1.2 State clearly the *reporting period* *(includes the entire period of attachment/SIP)***

**1.3 Objectives of the attachment; identify the key goals set for the attachment period, which could include learning goals/ production targets/ project completion, etc.**

For the project, an application needs to be created that is able to track another phones location with Wi-Fi information, using methods like SMS or server. Wi-Fi information is needed in case the GPS is not on or the phone can’t detect the location, allowing the user to get a rough idea on the elderly location. Learning how to use Android Studio and Java is essential to create the application. Learning about SQL servers and how to code PHP files is also needed if the application needs to use servers, like OpenShift servers.

***(Use a more formal writing style, avoiding first-person pronouns -- “I”, “me”, “my” –opt to use the Passive Voice instead.)***

**2. Description of the DU Environment**

* **Describe briefly the DU’s main focus / activities and structure.**

I need to create a working Android application that can track another phone’s location and Wi-Fi information. It needs to have a reliable method of sending and receiving information and for the application to display the info on a map. Creating two applications was decided, one using SMS to relay information and the other using server to send and collect data.

* **Highlight the area of research / type of work / activities you had been assigned.**

I had to research on the types of GPS applications in the App Store to get a rough idea on how a GPS application works. I also had to learn how to use GitHub and SourceTree, allowing me to save my codes on the internet and being able to get any previous working codes if I encounter a major error. I had to learn about Android Studio and how to create a server, as I had no partners and had to write all of the codes myself.

* **Mention who your supervisor/mentor is and any other important person in the DU (e.g. technical staff) who has facilitated your learning/project.**

Mr Teo Tse Tsong, my supervisor, was clear in what he wanted from me and he explained the objectives of the project clearly, allowing me to understand what to do for the project. Samuel, a senior, taught me the basics of Android Studio and how to create a server, allowing me to understand and create the codes needed for the application.

**3.** **Work Completed in the Reporting Period**

* **Describe all the activities you have done so far, using clear numbered sub-sectioning *(e.g. 3.1, 3.2 …)* to differentiate different areas of work, such as activities/events/training.**
* **Include appropriately labelled and captioned photos, diagrams as appropriate, but these visuals must not contain confidential and/or proprietary information.**

***(Detailed information should be placed as Appendices)*.**

**4. Analysis of the Impact of the DU Attachment\***

* **Discuss any challenges or the problems encountered in completing the areas of work/projects, as well as solutions/strategies used**
* **Analyse the key learning points / growth in your competencies *(Avoid discussion of personal issues, instead, focus on technical learning)***

**5. Conclusion**

* Provide a brief **analysis** of whether the work performed during the period of attachment has met personal/ supervisor’s expectations, achieved your objectives.
* Provide recommendations on **how the** **learning experience could be improved.**

***Appendices (if any):*** *Put supporting information, diagrams, tables, charts, drawings here.*