**RESEARCH PROPOSAL**

**Student IDs:**

**Student Name(s):**

**Topic:**Software Engineering and Mobile Applications

**Research Proposal Title:** Mobile Application Reengineering

**Describe the issue/problem/opportunity of the proposal?**

The issues faced in small to medium accommodation industries are ensuring the front desk is aware of the rooms completed and ensuring customers do not enter un-cleaned rooms. Hence why we have taken this opportunity to create an android mobile application where the housekeeper can use the application to report back to reception the rooms they have completed also allowing front desk to specify to the housekeeping staff, if a room needs a Service, Full Clean or needs a Linen change.

This application will allow front desk to allocated rooms to different housekeepers and provide real-time update on the rooms which have checkout and are ready to be cleaned.

**Aim and Objectives (1 aim and multiple objectives)**

Our aim is create order and reduce loss of time for housekeepers and to ensure business objectives is met. Our objectives are as follows:

1. Develop an android application
2. Add new user friendly interface.
3. Create and computer based interface for the front desk with simple interface
4. Allocated area to add notes in regards to room and guest requests
5. Provide real-time update on the rooms which have checkout and are ready for the housekeeping staff to clean.
6. Research on different features that could be added onto the application.

**Scope of your research:**

**What software methodology will be used and why? Resources needed.**

As we will be reengineering the “Learn Maori” app we believe that SDLC is most appropriate as we will be following the steps of Software Development Life Cycle to complete our tasks. The resources needed are the existing app we have developed independently, quality and validation assurance, language app research, discussion with colleagues and tutors.

**What research question(s) are you trying to answer (only 1 question?)**

Can we improve the quality of the Mobile App “Learn Maori” to reach a wider audience by implementing new functionalities and making it available on two different mobile platforms?