CP2013 – Assignment 1 (part 1)

## 1.0 Team Members:

|  |  |  |
| --- | --- | --- |
| Team Member | Specialty | Role |
| Jess McKenzie | Programming  GUI design | *Team Leader, Programmer* |
| Parminder Singh | *Programming*  *Database design* | Programmer |
| Nicholas Gregory | *Design / graphics* | Graphic Design |
| Graeme Broomhall | Database | DB Administrator |

## 1.1.0 Communication:

#### 1.1.1 Meetings

* Wednesdays 3pm onwards 🡪 development team meets without customer to discuss project status
* Fridays 1pm – 3pm 🡪 development team meets with customer to discuss progress/status and to receive feedback where needed

#### 1.1.2 Non-meeting Communications

* All communications performed outside of the designated meeting times must be performed via email.
* All email communications must include all developer team members (be that in the To or CC line) so as to ensure each member is on the same page.
* All team members are expected to be vigilant in checking and responding to emails relating to the project at hand.

## 2.0 Project Description

#### 2.1 Project Justification

The client has approached the development team with the intent on obtaining a system that will centralise the control of his household appliances. Put simply, the customer has requested a home automation solution that is customised to his living arrangements. The system is intended to improve the quality of living by reducing the hassle associated with repetitive household tasks surrounding technology. The request for such an ICT solution was not based on any concrete research and thus the development team has gone ahead and researched the topic of home automation further so as to provide the client with some workable suggestions. The client has considered the suggestions and has since provided appropriate feedback that has lead to the development team having a much clearer understanding of the project scope and requirements. These will be discussed in greater details later in the documentation.

Home automation is not a necessarily a new idea but it is certainly one of growing popularity. In 2014 alone, more than $160 million was recorded in revenue in the Australian home automation market. This number is expected to grow to upwards of $917 million over the next two years based on annual revenue projections. With the increasing demand for ICT solutions of this nature, some companies are seen to already cater for home automation requirements and provide some integration for pre-existing mobile devices. Most of the solutions currently on offer, however, are provided as fixed or pre-built solutions with little room for customisation. This is likely based around the assumptions that modern households will all have been built up in similar ways and that customers will be looking for similar setups.

In this particular instance, the pre-existing ICT solutions provide appear to meet some but not all of the client’s expectations. Should the client choose one of these solutions they will likely end up paying for some features that will not be used. As a result, it is evident that a fully customised and personalised solution is not only required but will also be more suited to the client’s budget.

#### 2.2 Project Goals

The primary objective of this project is to provide the client with an ICT solution that will not only be accessible via a web-based interface but will also provide a user-friendly interface for integration with both smartphones and tablets. The multi-platform solution will be developed using Agile XP, an iterative development process that encourages regular client involvement and therefore aims at providing a system that is best suited to the individual client.

#### 2.3 Milestones

* Milestone 1 (Login System) – This is expected to be the most important milestone of the project in that all remaining requirements will be based around the successful completion and therefore functionality of an optimised login system. It is for this reason that the first iteration of the project will require all focus to be pushed towards the login system regardless of where the client has placed his feature priorities.
* Milestone 2 (User Interface) – With a working login system in place, the user interface becomes the next recommended area of focus before actually adding any specific home automation features. This is based on the idea that the features will be more difficult to test without a well-structured interface to access them from.

## 3.0 Project Scope

#### 3.1 Availability

Over the 12-week period, each member of the development team is expected to achieve a minimum of 36 days of solid contribution to the project (3 days per week), which equates to 144 days for the entire development team. This includes, however, the initial exploration and planning process that has been in effect over the last few weeks. From the start of the first iteration (when the user stories are put in motion) there will effectively be 96 working days (collectively) for the development team to design and develop the ICT solution.

#### 3.2 User stories

User Story 1 : title

(+ brief description if necessary)

Estimate 🡪 (in days… max 5)

User Story 2 : title

(+ brief description if necessary)

Estimate 🡪 (in days… max 5)

… and so on

## 4.0 Agreement

I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hereby agree to and scope of both the alphas and final releases that have been presented to me for this project.

*Full Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_ / \_\_\_ / \_\_\_\_\_\_*

## 5.0 Development and Infrastructure

#### 5.1 Development Environment

(subject to additional information)

* + IntelliJ ??
  + Atom ??

#### 5.2 Programming Languages

(subject to additional information)

#### 5.3 Project Tools

All documentation, source code, communications, and other project-related files must be managed using the following collaborative tools:

* Github - stored and updated via Github for version control management. The github repository assigned to this project can be accessed via the following link: <https://github.com/codeninja88/CP2013_GroupAssignment>

NOTE: this repository is private and therefore is inaccessible to parties not working within the confines of the project at hand. Access to the repository is available by invitation by an administrator only and requires a valid github account ID.

* Google Drive – all word and/or excel files used throughout the course of this project will be managed via Google Drive so as to allow itemised revisions to be made by all contributors (client included). The Google Drive folder assigned to this project can be accessed via the following link:

<https://drive.google.com/folderview?id=0B2NHcXCV262tfkFuVERWZVhpR3JxZExqNHBxTU1LM3VrTGZMdEhkZUZRZUg0Q3kya2Ztb2c&usp=sharing>

* Trello – the afore-described user stories will be managed using an online tool known as Trello so as to allow itemised revisions to be made by all contributors (client included) throughout the course of the project. This tool provides an easily navigable interface and the ability to organise and edit user stories from iteration to iteration as necessary.

The user stories assigned to this project can be accessed via the following link:

<https://trello.com/b/KwSbXHs7/software-engineering-cp2013>

* Heroku – ???
* Electron – ???

#### 5.4 Prototypes (alpha-release)