Presented by: Team pharmacon



Inception Phase Status Assessment

ITC303 – Pharmacy Error Tracker (PET)

Version 1.0

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## Status assessment of overall project against aims

## You know what you are intending to do and why.

Team Pharmacon intend to create a single page web application to enable hospital pharmacists enter errors in the dispensing of medicines. Currently, a pharmacist will write an error on a piece of paper with the intention of entering the error into an Excel spreadsheet later when the spreadsheet is available. Errors vary in nature and include directions, dosage/strength, form (e.g. intravenous versus per oral), batch number, expiry date, type of medication, wrong patient, incorrect quantity and so on. The current method of recording errors mean that some errors are not recorded at all, others are forgotten to be entered in to the spreadsheet, and some are lost amongst other paperwork. This leads to incomplete records being kept of errors that occur and provides limited reporting.

By creating a single page web application that is quick and easy to use, Team Pharmacon intends to provide the pharmacists with a good alternative that will enable the capture of all errors by all users. This will provide pharmacists with a better indication of how, why, or when errors tend to occur. A single page web application based on the cloud, will have the bonus of not being platform dependent, allowing users to the flexibility to use various devices to enter errors.

The application will enable the user to create various forms of visualisations (graphs, charts, reports, etc.) that will enable quick analysis of entered data. These visualisations can be shared with known contacts via email.

## You have some idea of how you are going to do it.

As Team Pharmacon have concerns that the it will be able to deploy software on a client’s hardware directly, it has been decided to create a single page web application that will be based on the cloud. The added benefit for this type of application is that the system will not need to adapt to legacy systems. The architecture will need to be:

* Robust and store data securely without significant loss
* Flexible to allow the user to customise the error entry form to suit their needs
* Responsive while operating from a cloud server

To meet these criteria, Team Pharmacon intend to use a few key software resources, these being:

* Vue.js HTML/JavaScript framework
* MySQL database software
* Metabase data visualisation software

Vue.js HTML/JavaScript framework will provide the team with software required to create a user-friendly interface where they will be able to complete the entering of errors quickly and easily.

MySQL database software will provide the secure database in which the data captured through the entry of errors will be stored.

Metabase data visualisation software will provide the user with a quick and easy way to create various types of graphs, charts and reports on the data held in the MySQL database. These visualisations can be saved for future comparison.

## You have the skills and competence to achieve it.

The team members have various levels programming skills. All members have had experience with Java programming. Three members have skills in web design and two members have experience in using MySQL.

The decision to use the proposed software is a risk as members have not previously used Metabase or Vue.js. However, completing the Technical Competency Demonstrator indicates the team has the ability to use the software.

Though the team members’ knowledge about and the use of the software is still in its infancy, continued sharing of how-to videos, tips and documentation, along with using the software will ensure that each member’s knowledge base increases quickly.

## Specific deliverables

## Current issues

## Status of risks and risk mitigation strategies

## Progress of overall project

## Progress of specific aspects of project