Pharmacy Error Tracker

Project Plan

# Introduction

This Project Plan will outline how the Pharmacy Error Tracker project is planned to proceed into the elaboration, construction, and transition phases. It will set out an outline of work items that should be completed during each iteration.

# Project organization

Team Pharmacon is a 4-person team consisting of Beau, Jette, Leonard, and Ryan. We will be communicating via Discord. Team members and their capabilities are introduced in the [Team Summary](https://bitbucket.org/itc303teampharmacon/pharmacy_app/src/3756f79275cc7b939efc2ed77c6d2fee8caa4c3f/documents/Team%20Summary.docx?at=master&fileviewer=file-view-default).

# Project practices and measurements

Team Pharmacon will be following the iterative development model throughout this project. Initial planning of the requirements for the project will enable the team to analysis and design an application that will provide the client with a workable solution. During the development phase, further evaluation and testing of the application will occur to ensure that the final deployment of the application meets the client's needs.

The team will create an iteration plan each fortnight, setting specific tasks to be completed. These plans will be reviewed on a fortnightly basis to ensure all work items are completed. The table in Point 5 will be the basis for the development of the iteration plans.

# Deployment

We have set up an Amazon Web Service provider, into which the team members will be able to pull the latest version of the software from the Git version control repository. This approach will be used up until the transition phase, when a decision will be reached as to how to best provide the product to a production environment.

# Project milestones and objectives

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| **Subject** | **Phase** | **Iteration** | **Dates** | **Primary objectives** (risks and use case scenarios) |
| ITC303 – Software Development Project 1 | Inception Phase | I-1 | 13/03 – 26/03 | Establish Vision – Vision statement for the project outlining problem to be solved with stakeholder details  Establish Initial Use Case Model – Identified as "Add an Error" with supporting Use Cases of "Add a User", "Produce Visualisations", and "Output Error Data to Excel"  Complete Preliminary Non-functional Requirement Analysis – to be presented as System-wide Function Requirements document  Identify/Document Candidate Architectures - List of architectures to be completed and listed in a Systems Architecture document  Establish Version Control – to be established in Bitbucket, with team members having admin rights and James Tulip reading rights only |
| I-2 | 27/03 – 9/04 | Establish Risk List – Risk list to be created with potential risks listed. This is to be a living document that is to be updated when risks have been solved/avoided or new risks identified.  Complete Full Description for Critical Core Risky Difficult (CCRD)Use Case: Full description of "Add an Error" Use Case to be finalised along with full descriptions to be completed for supporting risky/difficult use cases as identified.  Implement Technical Competency Demonstrator – Demonstrator to show a single page web application where a user clicks on a button. Time & date stamp and IP address for the click is saved to a database. Metabase is used read the data in the database and provide visualisation of data held.  Create Test Plan – Establish a plan to test the various components of the project for each iteration  Establish Initial Project Plan  Deliver Life Cycle Objectives Milestone (LCOM)  Complete Inception Phase Project Assessment – complete the report for LCOM |
| Elaboration Phase | E-1 | 10/04 – 23/04  (Session Break) | Mitigate risk associated with the skill set of team members - as identified in the Risk List  Implement Ubuntu server  Implement MySQL database  Complete Development Testing for Ubuntu server and work on "Add an Error" Use Case - Ensure UAT is completed and documented |
| E-2 | 24/4 – 7/05 | Mitigate risk of Metabase and Vue.js not meeting project needs - as identified in the Risk List  Complete Development and Integration Testing for MySQL database and work on “Edit Error Submission Form” - Ensure UAT is completed and documented |
| E-3 | 8/05 – 21/05 | Mitigate risk of Error Submission Form Customisation - as identified in the Risk List  Implement Metabase  Complete Development and Integration Testing for Metabase work on “Log in”, “Produce Graphs Charts Visualisations of Errors” and auditing - Ensure UAT is completed and documented  Deploy Executable Architecture in Trial Environment – Deployment to demonstrate that the architecture works as expected in supporting "Add an Error" Use Case  Complete Internal User Acceptance Testing for CCRD Use Case in Trial Environment |
| E-4 | 22/05 – 2/06 | Contingency  Revise all documentation for LCAM: Project Vision, Requirement Model, Final Architecture, Risk List, Master Test Plan, Project Plan.  Deliver Life Cycle Architecture Milestone (LCAM)  Complete Elaboration Phase Project Assessment – complete the report for LCAM |
| Mid-year Semester Break | | | | |

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| Mid-year Semester Break | | | | |
| ITC309 – Software Development Project 2 | Construction Phase | C-1 | 10/07 – 23/07 | Implement supporting use cases "Edit Error Submission Form", "Modify Error in System", and "Output Error Data to Excel"  Complete Development and Integration Testing for listed Use Cases - ensure use cases passes development and integration testing followed by UAT testing |
| C-2 | 24/07 – 6/08 | Implement use cases "Add a User", "Manage User Details – Preferences", "Change Password", and "Delete a User"  Complete Development and Integration Testing for listed Use Cases - ensure use cases passes development and integration testing followed by UAT testing |
| C-3 | 7/0 – 20/08 | Implement use cases "Add a Contact", "Edit a Contact", "Send Report to Contacts", and "Remove a Contact"  Complete Development and Integration Testing for listed Use Cases - ensure use cases passes development and integration testing followed by UAT testing |
| C-4 | 21/08 – 3/09  (Session Break) | Contingency  Deliver Initial Operation Capability Milestone (IOCM)  Complete Construction Phase Project Assessment |
| Transition Phase | T-1 | 4/09 – 17/09 | Deploy Application in Trial Environment  Complete 1st Round External User Acceptance Testing  Resolve Any Identified Issues |
| T-2 | 18/09 – 1/10 | Complete 2nd Round External User Acceptance Testing  Resolve Any Identified Issues |
| T-3 | 2/10 – 13/10 | Contingency  Deliver Product Release Milestone (PRM)  Complete Final Project Assessment |