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Construction Phase Status Assessment

ITC309 – Pharmacy Error Tracker (PET)

**Version 1.0**

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# Status assessment of overall project against aims

## summary of overall project

Team Pharmacon has met the aim of the Construction Phase by demonstrating that all critical and significant project risks have been eliminated and that there is complete confidence that the project will succeed. The team has completed all deliverable items designated to demonstrate this, including:

* A ‘beta ready’ Implementation Model of Pharmacy Error Tracker (PET).
* A Test Model that
  + Demonstrates successful completion of ‘alpha’ stage user acceptance testing
  + Supports user acceptance testing during beta
* A User Manual that will support end users during beta testing

This Status Assessment will cover the risks and issues that have been addressed, discuss the delivered artefacts including the Executable Architecture, Alpha Testing, and User Manual and touch on the team status and any other concerns.

## To develop the product to be sufficiently stable and mature that it can be deployed in the user community for beta user acceptance testing.

During the development of PET the team have been continuously merging features into the development branch. These features have been then cloned on to the cloud server environment and tested. This has allowed the team to ensure that not only is the product working, but also that it can be consistently deployed and configured to work on a different environment to that of the developers’ work stations. This testing has also allowed the team to be able to create several handy scripts and deployment options to ensure that the software solution can be deployed easily in a new environment and that the configuration of the system is the same from one deployment to the next. Finally, as this solution is being hosted in the cloud, it is already in a state that is available to the user community.

## To demonstrate that all planned functionality has been developed by successfully passing alpha user acceptance testing.

Each of the functionalities created for PET have been individually UAT tested with results documented and recorded. Individual documents can be viewed within Team Pharmacon’s BitBucket repository. Each document contains screenshots to demonstrate that the actual step has completed as expected. Those UAT tests can be found [here](https://bitbucket.org/itc303teampharmacon/pharmacy_app/src/dev/documents/UAT%20Test%20Scripts/).

# To produce a user manual to support beta testing.

A user guide was created for each function of PET. The style of the guides has been purposely made to be simple, with clear step-by-step instructions on how to complete each task. Appropriate screenshots have been included to show the user how the application should respond to each step that is completed.

The individual user guides were combined into one document in a fashion that brought functionality together in logical groups. An overall cover and contents page was added to provide the user with a breakdown of the document contents. To make navigation easy, a link to each user guide has been embedded in each line of the main contents page. Further, individual user guide content pages have links embedded to their various sections.

## Specific deliverables

At the start of this project, Team Pharmacon set out to deliver an application that allowed the user to record errors that occurred during the dispensing of medication in a hospital pharmacy. Another aim was to allow the user to run various reports on the recorded data. Team Pharmacon has been able to deliver a single page webpage that enables the user to:

* Log errors
* Maintain error types
* Maintain user logins
* Maintain workers
* Maintain medication types
* Maintain patient details
* Maintain patient types
* Maintain physician details
* Download data as a .csv file
* Connect to Metabase and run various reports and visualisations
* Access to the User Guide (Manual) via a help function

## status of issues

An initial demonstration of PET to the stakeholder provided the team with an issue around the requirement of the user to enter a worker who created the error. Though the team has decided not to remove these worker related fields from the application, an ability has been provided for the administrator of the application to hide these fields from the form. This should remove this issue for the stakeholder while still allowing others that may implement the application to use this feature if they so desire.

Completion of user acceptance testing has been an issue throughout this project. However, during this final construction phase, tests have been completed on all main use cases. Unofficial testing was also completed on all functions during the creation of the User Guide (Manual). At this point, the application does not have any known bugs and is feature complete.

## Status of risks and risk mitigation strategies

A review of the risks surrounding the ability of Team Pharmacon to deliver a beta ready implementation model has found that all risks have been attended to. Consequently, all risks have been closed.

# Construction Iteration 1 review

### High-level objectives

During this iteration there were six high-level objectives to complete:

* Edit Error Submission Form
* Modify Error in System
* Output Error Data to Excel
* Complete Development and Integration Testing for listed Use Cases - ensure use cases passes development and integration testing
* Write UAT Test Scripts and Complete UAT Testing for listed Use Cases and create UAT Testing record
* Resubmit LCAM before the deadline on 13/07/18

### Hours worked

Estimated time: 39 hours

Actual hours worked: 24.5 hours

Estimated time left: 19 hours

### Work items

Total work items: 13

Work items complete: 4

Work items incomplete: 9

### Remarks

In this iteration the team was hit with some issues when trying to connect to the database. It ended up taking the entire team to focus on the issue and track down what was wrong. Another issue was a lot of time was spent researching potential solutions to the best method for creating user documentation. Project Status: Yellow – At Risk.

# Construction Iteration 2 review

### High-level objectives

During this iteration there were five high-level objectives to complete:

* Manage Worker Details
* Hide Worker
* Add user
* Delete User
* Change User Password

### Hours worked

Estimated time: 65 hours

Actual hours worked: 36.5 hours

Estimated time left: 30.5 hours

### Work items

Total work items: 19

Work items complete: 8

Work items incomplete: 11

### Remarks

Nearly 50% of the work items for this iteration were missed work items from last iteration. This iteration also saw a few members of the team fall ill and require some time off to recover. These two items coupled together led team to not complete all their work items this iteration. However, plans were made to offset this deficiency by moving the UAT work to a later iteration. Thus, freeing up more time in the next iteration to complete the more pressing issues, such as adding functionality to the product. Project Status: Yellow – At Risk.

# Construction Iteration 3 review

### High-level objectives

During this iteration there were six high-level objectives to complete:

* Add contact to Metabase
* Edit contact in Metabase
* Send reports to contacts in Metabase
* Remove a contact in Metabase
* Write UAT Test Scripts and Complete UAT Testing for listed Use Cases and create UAT Testing record Hours worked

Estimated time: 53 hours

Actual hours worked: 31.5 hours

Estimated time left: 27 hours

### Work items

Total work items: 16

Work items complete: 6

Work items incomplete: 10

### Remarks

Most of the high-level objectives this iteration was to make user guides for Metabase. However, it was found that Metabase already has the user guides in detail. So, this iteration was used to catch up on some work items. It was at the end of this work iteration that we were advised not to leave team mates struggling away on a problem for multiple iterations. As such, we assigned more team members to troublesome work items, like changing user passwords for instance. Project Status: Yellow – At Risk.

# Construction Iteration 4 review

### High-level objectives

During this iteration there were two high-level objectives to complete:

* Complete User Guide for each use case
* Write UAT Test Scripts and Complete UAT Testing for Use Cases not yet tested.

Estimated time: 46 hours

Actual hours worked: 54.5 hours

Estimated time left: 10 hours

### Work items

Total work items: 11

Work items complete: 9

Work items incomplete: 2

### Remarks

In this iteration we were able to drop the number of work items by combining a few work items from the last iterations that were essentially the same. We tackled the change password issue that had been plaguing us for the last two iterations by assigning an extra team member to help. Except for some minor finishing touches it was all but complete. We were a team member down for part of this iteration due to work commitments, but we were aware of this in advance and were able to adjust the workload of the items to account for that. Project Status: Green.

# Construction Iteration 5 review

### High-level objectives

During this iteration there were three high-level objectives to complete:

* Complete User Guide for each use case
* Write UAT Test Scripts and Complete UAT Testing for Use Cases not yet tested.
* Finish code work to have a feature-complete, no known bugs beta-ready application, including finishing the Change Password feature and the heavy fixes to the Edit Error Form use case.
* Conclude the Construction phase, by delivering a beta-ready application and a Construction Phase Status Assessment.

Estimated time: 22 hours

Actual hours worked: 39 hours

Estimated time left: 0 hours

### Work items

Total work items: 6

Work items complete: 6

Work items incomplete: 0

### Remarks

In this iteration we had a clear vision of the endpoint of the project. We tackled the remainder of the coding work items with enough time left afterwards to run tests and fix a couple of bugs that surfaced, along with the rest of the documentation items. We were able to fully complete the high-level objectives this iteration.  
Project Status: Gold