# ABC’s Inventory Management System

## Iteration 4 Assessment

## Key milestones

Note: 27th August – 2nd September: Mid semester break.

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| --- | --- |
| **Milestone** | **Date** |
| Iteration start | 03/09/2018 |
| Establish Iteration Plan | 04/09/2018 |
| Update Manage Staff (Fix bugs) | 04/09/2018 |
| Update Domain Model Diagram | 04/09/2018 |
| Update Use Case Model | 05/09/2018 |
| Update Design Class Diagram | 06/09/2018 |
| Replace buttons’ Text with appropriate icons in the implementation | 06/09/2018 |
| Establish Meeting Minutes and feedback document for week-7 | 06/09/2018 |
| Update Project Plan, Version Control and Risk List | 07/09/2018 |
| Update Search Product (Fix bugs) | 07/09/2018 |
| Add tooltip in the buttons | 07/09/2018 |
| Make application a full- sized window | 08/09/2018 |
| Review and Finalize all the documentation | 09/09/2018 |
| Merge all branches on git to keep all (documentation and implementation) up to date | 09/09/2018 |
| Add back button, home button and logout option on the window | 09/09/2018 |
| Make interface of application user friendly | 10/09/2018 |
| Finalize ‘Log in and Log out’ use case for both store and warehouse staff | 11/09/2018 |
| Finalize all the implementation and interface to initialize the application testing | 11/08/2018 |
| Start Testing of the application focusing each use case | 12/09/2018 |
| Establish user acceptance test | 12/09/2018 |
| Develop a User Manuals for the application | 13/09/2018 |
| Establish Meeting Minutes for week-8 | 14/09/2018 |
| Establish Feedback documents for week-8 | 14/09/2018 |
| Complete Construction Phase Project Assessment and report | 15/09/2018 |
| Update Project Plan, Iteration Plan, Risk List and Version Control | 15/09/2018 |
| Extra days for debugging and finalizing all tasks | 16/09/2018 |
| Establish Iteration 4 Assessment | 16/09/2018 |
| Iteration Stop | 16/09/2018 |

## High-level objectives

* Finalize all UI design for the application.
* Completion of all Test Case and Test Script of the Use Cases.
* Clear documentation of the User manuals

## Work Item assignments

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name or key words of description** | **Priority** | **Size estimate (points)** | **State** | **Reference material** | **Target iteration** | **Assigned to (name)** | **Hours worked** | **Estimate of hours remaining** |
| Establish Iteration Plan | 7 | 5 | Completed |  |  | Arik Maharjan | 2 | 1 |
| Update Manage Staff (Fix bugs) | 10 | 10 | Completed |  |  | Hieu Hanh Tran | 4 | 2 |
| Update Domain Model Diagram | 10 | 10 | Completed |  |  | Arik Maharjan | 2 | 1 |
| Update Use Case Model | 10 | 10 | Completed |  |  | Hieu Hanh Tran | 1 | 1 |
| Update Design Class Diagram | 10 | 10 | Completed |  |  | Arik Maharjan | 1 | 1 |
| Replace buttons’ Text with appropriate icons in the implementation | 5 | 3 | Completed |  |  | Shirish Maharjan  Hieu Hanh Tran | 1 | 1 |
| Establish Meeting Minutes and feedback document for week-7 | 10 | 7 | Completed |  |  | Arik Maharjan | 1 | 1 |
| Update Project Plan, Version Control and Risk List | 10 | 9 | Completed |  |  | Hieu Hanh Tran | 2 | 1 |
| Update Search Product (Fix bugs) | 10 | 10 | Completed |  |  | Heiu Hanh Tran | 5 | 2 |
| Add tooltip in the buttons | 6 | 3 | Completed |  |  | Hieu Hanh Tran | 2 | 1 |
| Make application a full- sized window | 6 | 5 | Completed |  |  | Shirish Maharjan | 3 | 1 |
| Review and Finalize all the documentation | 10 | 10 | Completed |  |  | Shirish Maharjan  Arik Maharjan  Hieu Hanh Tran | 2 | 2 |
| Merge all branches on git to keep all (documentation and implementation) up to date | 10 | 10 | Completed |  |  | Shirish Maharjan  Arik Maharjan  Hieu Hanh Tran | 1 | 1 |
| Add back button, home button and logout option on the window | 8 | 6 | Completed |  |  | Shirish Maharjan | 3 | 1 |
| Make Interface of application user friendly | 9 | 7 | Completed |  |  | Shirish Maharjan | 3 | 2 |
| Finalize ‘Log in and Log out’ use case for both store and warehouse staff | 10 | 8 | Completed |  |  | Arik Maharjan | 2 | 1 |
| Finalize all the implementation and interface to initialize the application testing | 10 | 9 | Completed |  |  | Shirish Maharjan  Arik Maharjan  Hieu Hanh Tran | 2 | 1 |
| Start Testing of the application focusing each use case | 10 | 10 | Completed |  |  | Hieu Hanh Tran | 5 | 2 |
| Establish user acceptance test | 10 | 10 | Completed |  |  | Hieu Hanh Tran | 4 | 2 |
| Develop a User Manuals for the application | 10 | 10 | Completed |  |  | Hieu Hanh Tran | 3 | 2 |
| Establish Meeting Minutes for week-8 | 9 | 9 | Completed |  |  | Arik Maharjan | 1 | 1 |
| Establish Feedback documents for week-8 | 8 | 7 | Completed |  |  | Arik Maharjan | 1 | 1 |
| Update Project Plan, Iteration Plan, Risk List and Version Control | 10 | 10 | Completed |  |  | Shirish Maharjan  Arik Maharjan  Hieu Hanh Tran | 2 | 1 |
| Establish Iteration 4 Assessment | 7 | 5 | Completed |  |  | Arik Maharjan | 2 | 1 |

## Issues

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| --- | --- | --- |
| **Issue** | **Status** | **Notes** |
| Conflicts in collaborating the codes between the team members | Solved | The team members were facing some difficulties during the merges in meetings. The team tried their best to find the cause behind it and executed many measures like: answers from Stack Overflow, consulting other groups, etc. The team finally found the solution for it and appropriate steps for merging have been practiced since then. |
| Logical bugs in the application | Solved | During the testing, the team members found several logical errors in the implementation. This highly affected the normal action of the application. Due to which more time had to be allocated to completing the implementation. The team members put extra effort to review all the codes thoroughly. More bugs were found during unit testing which were fixed and documented. Team members have realized that more time should be allocated for tests and debugging in the future. |

## Evaluation criteria

* Finalize the implementation and the interface of the application.
* Completion of all Test Case and Test Scripts of the Use Cases.
* Develop a User Acceptance Testing.
* Develop a complete User manual of the application.

## Assessment

|  |  |
| --- | --- |
| Assessment target | * Upgrading implementation with complete interface design * Establishing User Acceptance Test and User Manuals for the application |
| Assessment date | 12/09/2018 |
| Participants | Shirish Maharjan, Heiu Hanh Tran, Arik Maharjan |
| Project status | Yellow |

### Assessment against objectives

The following tasks listed below were carried during iteration 4 of the construction phase fulfilling all the iteration 4 objectives of iteration 4.

* Replace buttons’ Text with appropriate icons in the implementation
* Add tooltip in the buttons
* Add back button, home button and logout option on the window
* Make application a full- sized window

As seen from the objective listed above, they were all completed by the team according to the iteration planned.

### Work Items: Planned compared to completed

All the task pre-planned in this iteration were strictly followed by the team. However, due to obstacles with the implementation as logical errors, merging the codes, etc. took some extra days to be solved. This led to postpone our further task delaying the work items to be completed on time. Some of the major tasks like Construction phase assessment and user manual were not completed according to the planned iteration. Because the items were needed to be precise and documented well for the submission in coming iteration. The team decided to move the work load to the next iteration so that the work duties needed to be finalized in this iteration are completed with excellence. Therefore, the task that team members decided to complete within this iteration were fully completed and as for the other task left, the team postponed it to next iteration and will be completed in next iteration as planned.

### Assessment against Evaluation Criteria Test results

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| Evaluation Criteria | Result |
| Finalize the implementation and interface of the application. | * As there were many bugs found in the implementation. First of all, the implementation was checked and remove all the errors and logical bugs. There might be some minor bugs left in the system, but overall errors found by the team were fixed and as a result the implementation is running smoothly. After finalizing the implementation, the interface was modified with the help of thumbnail images representing buttons, adding back button feature and tooltip feature to make it more user friendly. |
| Completion of all Testing of the application | * After finalizing the implementation, alpha testing was initiated to test all the applied Use Cases. |
| Develop a User Acceptance Testing | * Scenarios were planned and documented for all the use cases and were implemented. All the test was then implemented in the application as documented and then observed and noted with screenshots attached. |
| Develop a complete User manual of the application | * For the operation of the application to a new user, a detailed document containing instructions for application function was created as ‘User Manual’ so that new user could operate the application with reference to it. |