# **Milestone 4 Scrum Report**

All students are expected to attend the scrum meetings and to participate. Failure to do so will result in greatly reduced grades.

**GROUP**: **Group C**

**Members Present**:

|  |  |
| --- | --- |
| 1. Chia-Ming Cheng | 4. Peter Bryson |
| 2. Md Arafat Koyes | 5. |
| 3. Md Asif Karim | 6. |

## Milestone 4 Tasks

* Finish implementing/coding the functions.
* Finish implementing/coding blackbox tests. Store in repo, executed, results in Jira (and on corresponding test documents, and debugged.
* A set of whitebox tests as test documents (in an Excel file) with test data for the functions you created. At least 4 sets of test data are required for each function. You must have test cases for at least 6 functions (including all your custom function). Stored in the repository.
* Whitebox tests implemented (in the C++ testing project), stored in repository, executed, results in Jira and on corresponding test documents, and debugged (at least 1 SET is required).
* Updated requirements traceability matrix stored in the repository.
* Completed hook file (for EACH team member) for test automation stored in the repository.
* Completed scrum report including reflection questions answered.

**Rubric:**

|  |  |  |
| --- | --- | --- |
| **Individual** | Group participation (includes GitHub commits and Jira usage) | 80% |
| Teamwork | 20% |
| **Group** | Implemented functions and main (well-designed, and documented) | 10% |
| Finish coding blackbox code (well-designed, written, and documented) | 5% |
| Whitebox test case document (well written, complete, good test data) | 10% |
| Whitebox test code (well designed and documented) | 10% |
| Updated requirements traceability matrix | 10% |
| Test execution (performed, results recorded, issues created) | 10% |
| Debugging (bugs fixed, documented, Jira updated) | 5% |
| Hook files | 10% |
| Git usage (used properly with good structure) | 5% |
| Jira usage (creates issues, tracks progress) | 15% |
| Scrum report & reflections | 10% |
| **Deadline** | 20% deduction for each day you are late |  |

**Scrum Report**

**Summary of Tasks Completed or Delayed in the last week:**

Here you can list all of the tasks completed in the last week along with any tasks which could not be completed with a reason why they could not be completed.

|  |  |  |
| --- | --- | --- |
| **Member** | **Tasks Completed** | **Tasks Delayed/Blocked** |
| Chia-Ming Cheng | Group meeting invitation and assign tasks, updated GitHub and Jira, wrote scrum report, proofread, and submission |  |
| Md Arafat Koyes | Wrote black box test cases |  |
| Md Asif Karim | Wrote black box test code |  |
| Peter Bryson | Wrote function specifications |  |

**Summary of Meeting:**

A summary of the main points discusses in the meeting and the outcomes of the discussions.

|  |  |  |
| --- | --- | --- |
| Topic | Discussion Summary | Outcome |
| Task arrangement | Every member knows their job | On time |
|  |  |  |
|  |  |  |

**Summary of Decisions Made:**

This will include major architecture and design decisions, testing decisions, prioritization of tasks, dealing with problems encountered and other major outcomes from the meeting.

|  |  |
| --- | --- |
| Decision | Rationale |
| Assign appropriate tasks to each member | To ensure all team members can understand the project |
|  |  |
|  |  |

**Tasks Attempted During Meeting:**

Each member is assumed to participate in the scrum meeting and contribute to the completion of the scrum report and reflections. Since the scrum meeting will not take more than 20-30 minutes, there is lots of time left to undertake some of the actual work tasks. In the table below, each member should list what they did to complete the scrum report, the reflections, and 1-4 other tasks they completed during the class period. If a task could not be completed, the student should indicate why this was not possible.

|  |  |  |  |
| --- | --- | --- | --- |
| Member | Task Attempted | Time Spent | Complete? |
| Chia-Ming Cheng | MS 3 Group meeting invitation and assign tasks | 30 mins | Yes |
| Chia-Ming Cheng | MS 3 Jira task and GitHub update | 30 mins | Yes |
| Chia-Ming Cheng | Writing white box test cases | 1 hours | Yes |
| Chia-Ming Cheng | Writing scrum report | 30 mins | Yes |
| Chia-Ming Cheng | MS 3 Proofread, review and submission | 1 hours | Yes |
| Md Arafat Koyes | Writing white box test code | 1 hours | Yes |
| Md Asif Karim | Writing black box test code | 2 hours | Yes |
| Peter Bryson | Writing function code | 2 hours | Yes |
|  |  |  |  |
|  |  |  |  |

**Scrum Tasks Selected for Next Week**:

The tasks each member has selected to pursue for this class or the next week.

|  |  |
| --- | --- |
| Group Member | Task Description |
| Chia-Ming Cheng | Group meeting invitation and assign tasks, update Jira project and GitHub, update requirements traceability matrix, integration test document and scrum report, proofread and review everything, submission |
| Md Arafat Koyes | Write white box test code |
| Md Asif Karim | Write hook file |
| Peter Bryson | All acceptance tests implemented and added to the testing C++ project |
|  |  |
|  |  |

**Major Outcomes of Meeting:**

This is where you should highlight the major accomplishments of the class.

|  |  |
| --- | --- |
| Outcome | Impact on Project |
| Every member knows their job | The project is progressing perfectly |
|  |  |
|  |  |

**Things That Went Well in This Meeting:**

Here you can highlight things which worked well. This indicates that the way you worked on these items is working and should be continued.

|  |  |
| --- | --- |
| Topic/Work Item | Reason for Success |
| Task arrangement | Every member is good at communicate |
|  |  |
|  |  |

**Things That Did NOT go Well in This Meeting:**

This is where you can list things which did not go well in the class. You should analyze why this happened and suggest how you can improve it next time. This will lead to the goal of *continuous process improvement*.

|  |  |
| --- | --- |
| Topic/Work Item | Reason for Problem and How to do Better |
| N/A |  |
|  |  |
|  |  |

**Reflections**:

Answer the following questions using your own words. Make sure that each answer comprises a minimum of 100 words.

1. Why did we wait until the fourth milestone to write the whitebox tests?

A:

After conducting thorough black-box testing and ensuring that the software meets functional requirements and user expectations, testers may proceed with white-box testing. White-box testing involves inspecting and validating the internal structure, logic, and code implementation of the software. This type of testing focuses on aspects such as code coverage, paths through the code, and optimization of algorithms. Because of that, by performing black-box testing before white-box testing, testers ensure comprehensive validation of the software's functionality and behavior based on user requirements and specifications before examining internal implementation details and code quality. This sequential approach contributes to the overall quality and reliability of the software product.

1. How does the Agile methodology ensure that all team members are consistently engaged throughout the software development process, avoiding downtime due to dependencies on others? Provide an example to illustrate your point.

A:

Agile methodologies facilitate consistent engagement of team members by promoting collaboration, iterative development, daily communication, and adaptive planning. These practices empower teams to manage dependencies effectively and deliver value incrementally, minimizing downtime and maximizing productivity throughout the software development process.

1. What is a shell script and how are we going to utilize a hook script in this project?

A: We'll do the hook file next week.