# **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**: 5

**Members Present**:

|  |  |
| --- | --- |
| 1. Jubin Verma | 4. Sandhya Timsina |
| 2. Photswat Boonmee | 5. Udav Tamyal |
| 3. Susinta Bastola | 6. Parshav Nileshbhai Gandhi |

## 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 in the repository, ensuring it shows both passed (green) and failed (red) tests.
* Completed hook file (for EACH team member) for test automation stored in the repository.
* Completed scrum report including reflection questions answered.

**Rubric:**

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| --- | --- | --- |
| **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) | 5% |
| Debugging (bugs fixed, documented, Jira updated) | 5% |
| Hook files | 15% |
| 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.

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| --- | --- | --- |
| **Member** | **Tasks Completed** | **Tasks Delayed/Blocked** |
| **Jubin Verma** | **Finish Coding BlackBox Code, Pre-push file, Hook file, white box testing file , black box testing file** | **No delays or blocks** |
| **Photswat Boonmee** | **Jira Management, ScrumReport, Pre-push file** | **No delays or blocks** |
| **Susinta Bastola** | **Reflection Quesitons, Traceability Matrix, Pre-push file** | **No delays or blocks** |
| **Sandhya Timsina** | **WhiteBox Test Code, Pre-push file** | **No delays or blocks** |
| **Udhav Tamyal** | **Implementation of Code (Function and Main), Pre-push file, Test Execution** | **No delays or blocks** |
| **Parshav Nileshbhai Gadhi** | **Code Debugging, Test Execution, Pre-push file** | **No delays or blocks** |

For every task delayed or blocked, describe the reason for the delay or block, how it impacts the project and the proposed solution or workaround**.**

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| --- | --- |
| **Delayed or Blocked Task** |  |
| **Reason for delay or block** |  |
| **Impact on Project** |  |
| **Solution or work-around** |  |
|  |  |
| **Delayed or Blocked Task** |  |
| **Reason for delay or block** |  |
| **Impact on Project** |  |
| **Solution or work-around** |  |

**Summary of Meeting:**

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

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| --- | --- | --- |
| Topic | Discussion Summary | Outcome |
| Distribution and assignment of tasks | **There are certain changes to the assignment that still fit their abilities, but some team members need to learn more about other processes.** | **Tasks are assigned efficiently, taking into account each member's talents and weaknesses.** |
| Reflection questions | **What professor expectation in this MS4** | **Deep learning the complete MS4 project to satisfy the Reflection Questions requirement** |
| Treaceability Matrix | **What should be Update in Treaceability matrix** | **Update Traceability Matrix to meet all requirements** |
| MS5 Tasks assignment | **Talking on who should do each duty** | **Another meeting is required to clarify which tasks must be completed by whom.** |
| BlackBox Test Code | **What should we have to finish BlackBox Test Code in MS4** | **Completed understanding task and each other need to review documents and discuss again** |
| Test Execution | **Who can give a good result of recording and well-performed in Testing** | **Assigned this task to Parshav** |

**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.

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| Decision | Rationale |
| Task Assignment | A few roles have been reorganized in this MS4 to allow for greater flexibility for each team member, and some team members have learned new things. As a result, certain team members will require more time to become proficient in their tasks. |
| Coding Part | In every MS coding part should be finished first before doing other tasks |
| Reflection Part | We assigned the Reflection Part to be completed last because the Reflection Questions are connected to every assignment in MS4. |

**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.

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| --- | --- | --- | --- |
| Member | Task Attempted | Time Spent | Complete? |
| Photswat Boonmee | **Scrum Report, Jira Management, WhiteBox Test Case** | **4 hrs** | **Completed** |
| Jubin Verma | **Finish Coding BlackBox Code** | **2 hr** | **Completed** |
| Susinta Bastola | **Reflection Questions and Updated Treaceability Matrix** | **1.30 hr** | **Completed** |
| Sandhya Timsina | **WhiteBox Test code** | **2 hr** | **Completed** |
| Udhav Tamyal | **Implementation Code (Function and Main)** | **7hr** | **Completed** |
| Parshv Nileshbhai Gandhi | **Code Debugging and Test Execution** | **3hr** | **Completed** |

**Scrum Tasks Selected for Next Week**:

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

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| Group Member | Task Description |
| Photswat Boonmee | **Jira Management, Scrum Report, next meeting arrangement, WhiteBox Test Code** |
| Jubin Verma | **Overall Review before each member submit, Reflection, Debugging** |
| Susinta Bastola | **Treaceability Matrix, WhiteBox Test Case** |
| Sandhya Timsina | **BlackBox Test code, Unit test** |
| Udhav Tamyal | **Implementation Code( Function and Main)** |
| Parshv Nileshbhai Gandhi | **Debugging, Test Execution** |

**Major Outcomes of Meeting:**

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

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| --- | --- |
| Outcome | Impact on Project |
| Gaining an improved understanding of MS coding concepts | **More effective Deep learning and project completion** |
| Traceability Matrix | **Faster and more efficient Completion of project** |
| Better understanding of MS4 Testing | **It is more difficult but more successful.** |
| Improved comprehension of the project | **Prepare our team for more work and be prepared to ensure that other assignments fulfill all standards.** |

**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.

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| Topic/Work Item | Reason for Success |
| Coding part | **Well communication, Good team management, Eager to work** |
| Test cases and unit testing | **Well communication, Good team management, Eager to work** |
| Reflection questions | **Well communication, Good team management, Eager to work** |
| Assignment of tasks | **Well communication, Good team management, Eager to work** |
| Traceability matrix | **Well communication, Good team management, Eager to work** |

**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*.

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| Topic/Work Item | Reason for Problem and How to do Better |
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**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?
2. 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.
3. What is a shell script and how are we going to utilize a hook script in this project?