# **Milestone 6 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 6 Tasks

This is the final milestone where you will run the acceptance tests and fix any remaining bugs found. In addition, you will produce a testing report which lists all the tests conducted, the results and whether the bugs were fixed, and the final test passed. You will also review the test matrix to ensure every test has been performed and passed. You can change the colour of the test in the matrix to show it was run and passed. At the end, all tests in the matrix should have been passed.

The final test report can be tabular like this:

|  |  |  |  |
| --- | --- | --- | --- |
| Function/acceptance/requirement | Test Run | Bugs Fixed | Passed |
| Distance | TF001 | Did not handle negative coordinates | 🗹 |
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**Deliverables due 4 days after your lab day:**

* Final testing report listing tests conducted, bugs fixed, and the final tests passed.
* Execute acceptance tests (results in Jira), and debug.
* Updated requirements traceability matrix in the repository, ensuring it shows both passed (green) and failed (red) tests.
* 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** | Complete solution code running and executing successfully | 15% |
| Test execution (performed, results recorded, issues created) | 10% |
| Updated requirements traceability matrix | 5% |
| Final test report | 30% |
| Debugging (bugs fixed, documented, Jira updated) | 5% |
| Git usage (used properly with good structure) | 5% |
| Jira usage (creates issues, tracks progress) | 15% |
| Scrum report & reflections | 15% |
| **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** | **Overall Review before each member submits, Test Execution, Final Report** | **No delays or blocks** |
| **Photswat Boonmee** | **Jira Management, Scrum Report, Reflection Questions** | **No delays or blocks** |
| **Susinta Bastola** | **Update Traceability Matrix** | **No delays or blocks** |
| **Sandhya Timsina** | **Complete solution code running and executing successfully**  **Test Execution** | **No delays or blocks** |
| **Udhav Tamyal** | **Complete solution code running and executing successfully**  **Test Execution** | **No delays or blocks** |
| **Parshav Nileshbhai Gadhi** | **Code Debugging, Test Execution** | **No delays or blocks** |
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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 | **Assess the effectiveness of the current job distribution and, if required, modify it for MS6. Keep giving each member assignments that play to their strengths while offering chances for cross-training.** | **Each team member's strengths and abilities are maximized through the distribution of tasks. Team members become more knowledgeable about various procedures, which enhances cooperation and project effectiveness. Cross-training improves a team's overall adaptability.** |
| Reflection questions | **Examine MS6 project deliverables to make sure all specifications are fulfilled.** | **Well-written and considered responses to reflection questions show a thorough comprehension of MS6. This results in a better understanding of the project's goals, enhanced critical thinking, and maybe higher evaluation scores because of in-depth project insights. Placed under Photswat** |
| Traceability Matrix | **Make that all MS5 requirements and traceability linkages are reflected in the new Traceability Matrix.**  **To keep a comprehensive and accurate matrix, take into account any modifications or new specifications that arise for MS6.** | **Every requirement and traceability link from MS5 as well as any new additions or changes for MS6 are appropriately reflected in the Traceability Matrix. In the end, this increases project openness and accountability by guaranteeing full project alignment with requirements, which facilitates tracking modifications and achieving goals. Given to Susinta** |
| Final Test Report | **The Final Test Report's components and significance were described, with a focus on how it helps evaluate the quality of the product, fix flaws, and direct future choices.** | **The group is committed to finishing a thorough Final Test Report that details all testing operations, including completed test cases, findings, and flaws found. This will give a clear picture of how well-made and ready the product is. Given to Jubin** |

**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 |
| Problems that arise in the testing stage and other project areas will be noted, examined, and given a priority for fixing. | **Systematic problem-solving reduces risks to project delivery and quality, guarantees that no issues are missed, and increases problem-solving effectiveness.** |
| All elements of the testing phase, including test cases, findings, flaws, and suggestions, will be documented in the Final Test Report. | **A thorough test report guarantees accountability and transparency, offers information for project preparedness decision-making, and functions as a helpful historical record for future usage and ongoing development.** |
| To provide extensive and insightful responses to reflection questions, the team will set aside time to fully comprehend the MS6 project. | **To provide extensive and insightful responses to reflection questions, the team will set aside time to fully comprehend the MS6 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.

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| --- | --- | --- | --- |
| Member | Task Attempted | Time Spent | Complete? |
| Photswat Boonmee | **Jira Management, Scrum Report, Reflection Questions** | **3 hrs** | **Completed** |
| Jubin Verma | **Overall Review before each member submits, Test Execution, Final Report** | **3 hr** | **Completed** |
| Susinta Bastola | **Update Traceability Matrix** | **1.30 hr** | **Completed** |
| Sandhya Timsina | **Complete solution code running and executing successfully**  **Test Execution** | **3 hr** | **Completed** |
| Udhav Tamyal | **Complete solution code running and executing successfully**  **Test Execution** | **3 hr** | **Completed** |
| Parshv Nileshbhai Gandhi | **Code Debugging, Test Execution** | **1hr** | **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 | **TBD** |
| Jubin Verma | **TBD** |
| Susinta Bastola | **TBD** |
| Sandhya Timsina | **TBD** |
| Udhav Tamyal | **TBD** |
| Parshv Nileshbhai Gandhi | **TBD** |

**Major Outcomes of Meeting:**

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

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| Outcome | Impact on Project |
| After reviewing the Final Test Report's components and significance, everyone agreed that it should be comprehensive and cover every testing area. | **A thorough summary of testing procedures and outcomes is provided in a well-written Final Test Report, which aids stakeholders in decision-making and acts as a guide for next enhancements.** |
| With a plan to fully answer the MS6 reflection questions, the team recognized the significance of having a solid understanding of them. | **In addition to improving learning outcomes, thoughtful reflection shows thorough project comprehension, which is beneficial for assessments and ongoing development.** |
| The group decided to update the Traceability Matrix to include any modifications for MS6 and to reflect all project requirements for MS5. | **comprehensive and precise By ensuring that all project requirements are fulfilled and monitored, the traceability matrix lowers the possibility of requirements being missed and enhances the team's ability to link each component back to goals.** |
| The duties assigned to each team member for MS6 were examined and explained, making sure that the tasks were appropriate for their knowledge and aptitudes and offering chances for cross-training. | **By eliminating misunderstandings and redundant work, this clarity improves productivity and streamlines project operations. Cross-training guarantees the adaptability and resilience of the team.** |

**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** |
| Final Test Report | **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. Although we wrote a report on the testing that shows which tests were run and passed or failed, we also updated the traceability matrix. What are the advantages of updating the traceability matrix in addition to writing the test report?  
     
     
   Beyond the test report, the traceability matrix provides a number of significant benefits. The matrix offers a clear visual mapping between requirements and test cases, making it simple to detect any untested requirements and guarantee thorough coverage, while the test report lists the tests that were conducted and their pass/fail status. Impact analysis benefits greatly from it since it makes it easier to determine which tests require upgrading as soon as requirements change. Additionally, the matrix improves project visibility by giving a concise summary of testing progress, facilitates audits by recording the relationships between requirements and tests, and fortifies quality assurance by avoiding test coverage gaps. It is a crucial addition to the test report because of its methodical approach to monitoring the connections between requirements and tests, which aids in project management and quality control initiatives.
2. Teamwork on a project like this is vital to its success. How well did your team work together? If you worked well, what contributed to its success? If it did not work well, what contributed to the problems?  
     
     
   Clear role descriptions and consistent communication channels allowed us to maintain good performance while assessing our team's collaboration. Well-structured sprint planning sessions and daily standup meetings kept everyone on the same page and helped divide the work fairly. Members of the team constantly showed that they were willing to help one another, contributing different viewpoints while yet showing respect for one another. When small disagreements came up, we resolved them quickly through candid dialogue and successfully came to an agreement. Positive team chemistry were mostly maintained by our established communication procedures and mutual dedication to project achievement. This event served as a reminder that effective teamwork necessitates constant effort and flexibility from each team member.
3. In every milestone you were asked what worked and did not work along the way. Were you able to incorporate what you learned to improve your team’s performance on the next milestone? Did your team learn from their mistakes and improve? If so, why? If not, why?  
     
   Yes, in order to improve performance in the future, our team successfully applied the lessons acquired from each milestone. Our frequent retrospective sessions allowed us to pinpoint both achievements and difficulties, and we used the input to improve our procedures. After identifying communication gaps in the first milestone, for example, we introduced a shared documentation system and more frequent check-ins, which greatly enhanced collaboration in subsequent phases. We also modified how we divided up the task in light of past instances in which certain team members were overworked. By accepting these adjustments, the team showed flexibility and improved workflows, which resulted in greater results at later milestones. Throughout the project lifetime, this philosophy of continual improvement enabled us to provide ever-better outcomes and strengthen our team.
4. Did you end up testing the code to the point where you were convinced it worked correctly? Were there any tests that had not pass at the end? If so, what was the impact of this on the project?

Strong confidence in the functionality of the code was provided by the successful completion of the entire test suite. Unit, integration, and system tests were all part of our extensive testing strategy, which made sure that all important features and requirements were fully covered. Every test case was meticulously crafted to validate particular functionalities, and the successful outcomes validated that the code operated as anticipated in a range of scenarios. Our test cases' full success was essential to the project's completion because it proved how dependable and strong our solution was. All tests passing also allowed us to move forward with deployment without worrying about possible defects or functional problems, which eventually helped the project be completed successfully.