# **MILESTONE 6** -- SFT221 SCRUM Report and Reflection

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

**GROUP**: \_\_\_\_\_\_\_\_\_\_\_\_\_**1**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

|  |  |
| --- | --- |
| 1. Nguyen Dang Khoa Huynh | 4. Prince Ghumaan |
| 2. Song Nhat Nguyn | 5. |
| 3. Mohamed Mohamed | 6. |

## 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:

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| --- | --- | --- | --- |
| 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 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** | Complete solution code running and executing successfully | 20% |
| 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) | 10% |
| 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** |
| **Nguyen Dang Khoa Huynh** | **Acceptance Testing, Scrum Report, Reflection Questions.** | **None** |
| **Song Nhat Nguyen** | **Final Report, Traceability Matrix, Acceptance Testing.** | **None** |
| **Mohamed Mohamed** | **Reflection Question 1 & 2** | **None** |
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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** | **Function implementation fix match with example output.** |
| **Reason for delay or block** | **Having Compile error** |
| **Impact on Project** | **The testing suite for the implementation of the function is incomplete, and there has been a delay in testing.** |
| **Solution or work-around** | **Conducting tests solely on currently functioning functionality** |
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| **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 |
| Function Implementation | **Implement fix functions for the entire project.** | **Discussion complete**  **Function Implementation** |
| Acceptance Testing | Finished and reported during MS05 & MS6 | **Executed** |
| SCRUM | **SCRUM Done** | **Completed** |
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**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 |
| Acceptance Testing | Choosing Alpha and Beta Testing as processes. Prefer more Alpha Testing |
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**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? |
| Nguyen Dang Khoa Huynh | **Scrum Report, Acceptance Testing and update acceptance testing excel file, Reflection Questions.** | **2.5 hours** | **Yes** |
| Song Nhat Nguyen | **Completed the Final report, Acceptance Testing, Update Traceability Matrix.** | **90 min** | **Yes** |
| Nguyen Dang Khoa Huynh | **Jira and GitHub updated and assigned** | **1 hour** | **Yes** |
| Mohamed Mohamed | **Reflection 1 & 2** | **1 hour** | **Yes** |
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**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 |
| ALL | Although this is the final work for the entire milestone, our crew has opted to persist in enhancing this software as it remains incomplete. |
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**Major Outcomes of Meeting:**

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

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| Outcome | Impact on Project |
| Confirmation on Acceptance testing | **Executing the programs independently (Alpha and Beta) and documenting the debug outputs on Jira and ticketed to member.** |
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**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 |
| SCRUM | **Understanding the process of Milestone.** |
| GIT | **Useful for version control and keeping track of changes** |
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**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 |
| N/A | **N/A** |
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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 function test matrix. What are the advantages of updating the function test matrix in addition to writing the test report?  
     
   Revising the function test matrix in conjunction with the test report provides several benefits that enhance a thorough and methodical approach to software testing and quality assurance. The matrix provides clear visual documentation of the functions or components that have been tested, ensuring comprehensive coverage across the product. This traceability enhances accountability by associating certain test cases with their respective code parts. The matrix update process promotes meticulous test planning, facilitating effective resource allocation and prioritizing of essential tests. Additionally, it facilitates risk management by pinpointing locations with inadequate test coverage, thereby revealing possible risks. The matrix's function in evaluating testing comprehensiveness offers critical insights into software quality, facilitating decision-making about its release readiness. In the realm of advancing software, a current matrix optimizes regression testing by identifying required test repetitions subsequent to code modifications. Its existence as a common reference point enhances collaboration and communication across development, testing, and management teams. Regular updates facilitate ongoing improvement initiatives by pinpointing patterns and opportunities for refining testing processes. In regulated sectors, the matrix provides advantages for compliance and audits by demonstrating rigorous testing methodologies. Furthermore, it facilitates the automation of tests by pinpointing appropriate tasks for automation, thereby improving efficiency and consistency. The function test matrix, when concurrently updated with the test report, serves as an essential instrument for overseeing testing operations and guaranteeing superior software quality.
2. Teamwork on a project like this is vital to success. How well did your team work? If it worked well, what contributed to its success? If it did not work well, what contributed to the problems?

We utilized both GitHub and Jira for efficient, collaborative project management. GitHub offered comprehensive version control, allowing our team to effectively manage code modifications, interact fluidly, and monitor progress. Utilizing capabilities like pull requests, branches, and issue tracking, we efficiently allocated jobs, handled disagreements, and preserved a detailed record of project advancements. Moreover, Jira served as a multifaceted project management instrument, enabling us to strategize, monitor, and prioritize work while providing a transparent picture of project milestones. The integration of GitHub and Jira enabled our team to collaborate effectively, synchronize activities, and sustain an organized and successful project.

1. In every milestone you were asked what worked and did not work along the way. Were you able to incorporate what you learned to improving your team’s performance on the next milestone? Did your team learn from its mistakes and improve? If so, why? If not, why?  
     
     
   We have seen each milestone as a chance for learning and development. By analyzing successes and failures, we have improved our strategy, utilizing these insights to further future objectives. As a team, we have utilized our combined experience, applying acquired lessons to promote ongoing enhancement. By fostering clear communication and mutual accountability, although facing teamwork struggle, we have effectively tackled issues and enhanced our performance. Our commitment to deriving insights from previous experiences has compelled us to evolve, leading to more seamless executions and enhanced outcomes.

1. Did you end up testing the code to the point where you were convinced it worked correctly? Were there any tests that had not passed at the end? If so, what was the impact of this on the project?

The acceptance testing step indicated that some tests failed, demonstrating that the code did not achieve the requisite standards of functionality and quality. This event significantly affected the project, revealing possible problems and deficiencies that required attention. The failed tests revealed discrepancies between the code and the project's needs and specifications. This presented difficulties in fulfilling consumer expectations and providing a dependable product.

The failure of acceptance testing necessitated a reevaluation of several facets of the project. It prompted inquiries regarding the comprehensiveness of the preliminary testing strategy, the precision of the requirements collection procedure, and the efficacy of the development methodology. The unsuccessful tests necessitated a reassessment of the codebase to ascertain underlying issues and aspects needing additional development or corrections. The project team needed to allocate more time and effort to identify and resolve these difficulties, thus affecting project schedules, resource distribution, and overall delivery.