# SFT221 SCRUM Report and Reflections

This report should be completed in the class and submitted at the end of class. Late submissions cannot be accepted without prior approval of the instructor.

**GROUP**: \_\_\_\_\_\_\_\_\_\_\_\_3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

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| --- | --- |
| 1. Prabhjot Singh Longia | 4. Divya Devendrasinh Rana |
| 2. Harsh Pahurkar | 5. |
| 3. Mukul Sharma | 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 color 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 at end of Lab:**

* SCRUM Report and reflections

**Deliverables Due at 23:59 4 Days after Lab:**

* Execute acceptance tests(results in Jira), and debug.
* Updated function-test matrix stored to the repository.
* Final Testing report listing tests conducted, bugs fixed and the final test passed.

**Rubric**

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| --- | --- | --- |
| Individual | Group Participation | 75% |
|  | Teamwork | 10% |
|  | SCRUM Report & reflections | 15% |
| Group | Updated test matrix | 20% |
|  | Final test report | 20% |
|  | Test Execution (performed, results recorded, issues created) | 10% |
|  | Debugging (Bugs fixed, documented, Jira updated) | 5% |
|  | Git Usage (used properly with good structure) | 5% |
|  | Jira Usage (creates issues, tracks progress) | 5% |
|  | Meets Deadlines | 5% |
|  | SCRUM Report & reflections | 30% |

**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** |
| **Prabhjot** | **Updated main branch with the improvised and optimized version of the functions and program** |  |
| **Mukul** | **Created and executed final tests** |  |
| **Harsh** | **Updated the test-matrix and included the final tests** |  |
| **Divya** | **Created final test report, mentioning improvements and bug fixes. Prepared the scrum report** |  |
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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 |
| modifying main branch with the functions and program's improvised and optimized iteration | The conversation centered on improving program iterations and introducing more sophisticated functionalities into the main branch. | The conclusion was agreement to make the changes, with the expectation of improved performance and simplified procedures. |
| developing and carrying out final testing | The discussion revolved around the completion of development and the successful execution of final testing | The outcome was unanimous approval to proceed with the next phases, highlighting a pivotal milestone achieved. |
| revising the test matrix and including the results of the tests | The discussion centered on the revision of the test matrix to encompass comprehensive test outcomes. | The outcome involved an updated test matrix, incorporating detailed test results, facilitating informed decision-making and future refinements. |
| Writing the final test report which indicates enhancements and bug solutions. Preparing the scrum report | The discussion emphasized the completion of the final test report, showcasing identified enhancements and resolved bugs. | The outcome comprised a well-documented report that will guide further iterations and reinforce the project's quality and reliability. |
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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 |
| modifying main branch with the functions and program's improvised and optimized iteration | to enhance overall system performance and user experience |
| developing and carrying out final testing | The decision to develop and carry out final testing is rooted in ensuring the product's readiness for deployment. |
| revising the test matrix and including the results of the tests | By updating the test matrix with detailed results, the decision ensures a comprehensive overview of testing outcomes, enabling informed decision-making for further improvements and refinements. |
| Writing the final test report which indicates enhancements and bug solutions and preparing the scrum report | This report provides a clear record of the progress made, showcasing areas of improvement and demonstrating the successful resolution of identified issues. |
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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? |
| Prabhjot | modifying main branch with the functions and program's improvised and optimized iteration | 3 hours | YES |
| Mukul | developing and carrying out final testing | 2 hours | YES |
| Harsh | revising the test matrix and including the results of the tests | 2 hours | YES |
| Divya | Writing the final test report which indicates enhancements and bug solutions and preparing the scrum report. | 2 hours | 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 |
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|  | THIS IS THE LAST MILESTONE |
| ------------- | --------------------------------------- |
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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 |
| The modification of the main branch with improved functions and optimized program iterations results in a more efficient and reliable software system. | This decision positively impacts the project by enhancing user experience, increasing system efficiency, and reducing the likelihood of issues arising during usage. |
| The successful development and execution of final testing result in a thoroughly validated and refined software product. | The outcome of developing and carrying out final testing ensures a high-quality, reliable, and robust software solution. |
| The revised test matrix, including detailed test results, provides a comprehensive overview of the software's performance and behavior during testing. | The outcome of revising the test matrix and including test results is increased transparency and informed decision-making. |
| The completion of the final test report detailing enhancements and bug solutions, along with the preparation of the Scrum report, results in comprehensive documentation of the development process. | Firstly, it provides a clear record of the project's evolution, making knowledge transfer and future iterations more efficient. Secondly, it facilitates informed decision-making for further development cycles by highlighting areas of success and improvement. |
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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 |
| The modification of the main branch with improved functions and optimized program iterations results in a more efficient and reliable software system. | The success of optimizing the main software branch stems from clear objectives, expert analysis, collaboration, rigorous testing, and user-centered design. |
| The successful development and execution of final testing result in a thoroughly validated and refined software product. | The success of achieving comprehensive final testing lies in meticulous planning, rigorous execution, and systematic validation. |
| The revised test matrix, including detailed test results, provides a comprehensive overview of the software's performance and behavior during testing. | The success of revising the test matrix hinges on meticulous documentation and transparent reporting. |
| The completion of the final test report detailing enhancements and bug solutions, along with the preparation of the Scrum report, results in comprehensive documentation of the development process. | Success in this topic is driven by meticulous documentation, capturing both technical refinements and project management insights. |
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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 |
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**Reflections**:

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?

* There are some important advantages of updating the function test matrix simultaneously with creating the test report. The matrix gives a brief summary of test results and coverage for various functionalities while also providing a simplified visual depiction of the testing landscape. This makes it easier to spot trends, potential bottlenecks, and potential problem areas. Additionally, the matrix promotes effective resource allocation by coordinating development activities with testing gaps and needs. Additionally, it functions as a succinct communication tool that makes transparent reporting to stakeholders possible. Through the preservation of testing history and the provision of insights for ongoing improvements, risk reduction, and knowledge transfer, the matrix serves as a documentation asset that supports future development.

1. 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?  
   🡪 Strong teamwork depends on clear roles, good communication, and common objectives. Teams that are successful keep lines of communication open, work together effortlessly, and distribute jobs well. On the other hand, problems could result from poor cooperation, unclear roles, or miscommunication. Teamwork and project success can be improved by addressing these problems through clear communication, defined roles, and efficient procedures.
2. 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 its mistakes and improve? If so, why? If not, why?

* Yes, we were successful in applying what we learned from each milestone to enhance our team's performance for the following ones. Utilizing the knowledge learned from both successes and failures, our team actively adopted a culture of continuous improvement. We carried out in-depth retrospectives to determine what went well and what required improvement. We improved our procedures, communication strategies, and task distribution through the analysis of these experiences, leading to greater productivity and more seamless collaboration. Our team's capacity to learn from failures and adjust for greater success was demonstrated by this commitment to learning and adaptation, which resulted in observable gains.

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?

* After conducting the acceptance test, the code underwent extensive testing using diverse inputs, including edge cases, to ensure its functionality. Although rigorous testing covered most scenarios, the possibility remains that certain unconsidered cases could lead to unforeseen behavior. Despite this, the program has undergone thorough testing overall.