# 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**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_5\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

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| --- | --- |
| 1. Sasawat Yimleang | 4. Samin Sorayya |
| 2.Lebna Noori | 5.Radmehr Behzadfar |
| 3.Wilson Sum | 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 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** |
| **Sasawat Yimleang** | * **Participating in group meeting.** * **Fill out scrum report (Major outcome, Things went well, and Things did not go well parts).** * **Create 6 acceptance test cases.** * **Update test data report and traceability matrix.** * **Add final test report.** |  |
| **Lebna Noori** | * **Fill out scrum report** * **Reflections questions** |  |
| **Wilson Sum** | **Fill out scrum report, made 9 acceptance tests, debug shortest path function, rewrite and debug findAvailableTruck function, further debugged validateLocation function, report all bugs found using bug report, wrote stories for all retests, update matrix traceability report update data report.** |  |
| **Samin Sorayya** | * **Fill out the scrum report** * **Answered reflection question 4** |  |
| **Radmehr Behzadfar** | **Participating in last group meeting**  **Set the latest reports on jira**  **Filling the SCRUM report**  **Checking the latest deliverable functions which belonged to me (getPossibleMoves has been modified as the only issue)**  **Pulling on github** |  |
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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 |
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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 |
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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? |
| Sasawat Yimleang | **Filled scum report, analyze the task, design the test cases and update Jira.** | **2 hrs** |  |
| Lebna Noori | **Filled scrum report, made some acceptance test cases, reflection questions** | **3 hrs** |  |
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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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**Major Outcomes of Meeting:**

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

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| Outcome | Impact on Project |
| Analyzed the assignment of MS6. | **A clear understanding of the requirement and goal of MS6 and whole project will make members understand their responsibility.** |
| Assigned responsibilities on testing part to each member. | **Each member is responsible for the acceptance test cases and debugging the function all functions after found the bugs** |
| Declared the due date of each part. | **The due date for all tasks in this Milestone is on August 14, 2023, in case that has the unexpected happens after run the whole project. This will ensure the project will go properly.** |
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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 |
| Task assignment | **We discussed and made agreements about the person responsible for the task create the acceptance test cases.**  **The meeting ensured that each task was allocated to a responsible team member.** |
| Participation | **All Team members presented actively participated and contributed to the discussions.**  **Active participation fostered collaboration and helped generate valuable input and solutions.** |
| Decision-Making | **Decisions were made in a timely and collaborative manner.** |
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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 |
| Understanding of acceptnce test | **Some of the members do not understand clearly what the acceptance test is and how to create acceptance test cases.**  **To solve this, we need to explain and give them some examples of acceptance test cases.** |
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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?
   1. There are two main advantages of updating the function test matrix.
      1. **Function Test Matrix**:
         1. it shows what parts of the software were tested.
         2. Helps prioritize testing efforts
         3. Keeps track of the test coverage
         4. Supports future updates and regression testing.
      2. **Test Report**:
         1. Summarizes test results (pass/fail)
         2. Highlights any problem or errors found
         3. Provides evidence of software quality
         4. Helps in decision making about software readiness
         5. Helps improve future development
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?
   1. Overall, our team work was great, as everyone participated and took part in all milestones which helped to get things done quickly and in an efficient way. The thing that helped our team to stay on track and keep everyone on the same page was our weekly group meetings and usage of Jira. During our sessions we discussed our parts and asked questions to set the goal and make sure everyone is following the guidelines and to make sure we are all on the same page. Jira helped us to stay up to date and to keep track of the errors or the problems that needed to be taken care of, and also it helped to communicate with each other via comments or add recommendations.
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 improving your team’s performance on the next milestone? Did your team learn from its mistakes and improve? If so, why? If not, why?
   1. During the first milestones we had hard setting up the meeting because everyone had different schedules and the meetings would get delayed and take place online. As we moved forward we were all able to come up with a time that works for everyone and we realized that it was important to meet in order to have an amazing performance on the weekly tasks that were assigned, and to help and answer each other’s questions.
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 passed at the end? If so, what was the impact of this on the project?

Yes, we put the code through rigorous testing to ensure it functions correctly. Throughout this process, we encountered situations where some tests didn't give the expected results. But that's okay – it's a reality in software development that achieving a completely bug-free code is quite challenging.

There's a saying in our field: "If no tests fail, you may not be trying hard enough." This means that if all tests pass without any issues, it could suggest that we haven't explored all the possible scenarios and potential problems. However, we made sure to cover as many possible scenarios as we could.

In our testing process, we used various approaches to ensure our solution works correctly, we performed different types of tests:

**Unit Testing:** We tested individual parts of our code to make sure they functioned as intended. For example, we tested how the trucks handle weight and volume limits, and how they calculate the available space.

**Integration Testing:** We tested how different components of our system work together. This included checking if the trucks correctly diverted from their routes to deliver packages while avoiding buildings.

**Acceptance Testing:** We tested the entire system to see if it meets the requirements of the delivery company. This involved simulating various scenarios where packages with different weights and sizes needed to be delivered to different destinations. We calculated which truck would be the best choice based on the distance it would need to divert from its route and its available space.

Our testing helped us identify and fix issues, making our solution more reliable and accurate.