# **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**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

|  |  |
| --- | --- |
| 1. Heungbin Oh | 5. Hiu Fung Chan |
| 2. Tien Vu To | 6. Trung Kien Phan |
| 3. Arshia Keshavarz Motamedi | 7. Ying Cheung Ellis Fung |
| 4. Aditya Tambe |  |

## 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 | 🗹 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**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:**

|  |  |  |
| --- | --- | --- |
| **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.

|  |  |  |
| --- | --- | --- |
| **Member** | **Tasks Completed** | **Tasks Delayed/Blocked** |
| Arshia Keshavarz Motamedi | Worked on scrum report and reviewed all documents and project. | **-** |
| Heungbin Oh | Updated test documents based on the tests result | **-** |
| Tien Vu To | Updated test documents based on the tests result | **-** |
| Aditya Tambe | Worked on scrum report and updated test documents based on the tests result | **-** |
| Hiu Fung Chan | Worked on final test report. | **-** |
| Trung Kien Phan | Worked on final test report. | **-** |
| Ying Cheung Ellis Fung | Executed all the tests and worked on final test report. | **-** |

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**.**

|  |  |
| --- | --- |
| **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.

|  |  |  |
| --- | --- | --- |
| Topic | Discussion Summary | Outcome |
| Updating test documents | Review the test results and file format | Heungbin Oh, Tien Vu To and Aditya Tambe wanted to handle this task. |
| Final test report preparation | Prepare the final test report and record the bugs/issues fixed. | Hiu Fung Chan and Trung Kien Phan wanted to handle this task. |
| Updating function test traceability matrix | Updating the function test matrix file based on the test results. | Arshia Keshavarz Motamedi wanted to handle this task. |
| Acceptance Test | Executed the tests and report the test output with screenshot in Jira. | Ying Cheung Ellis Fung wanted to handle this task. |
| Project review | Review all the documents and source codes | Arshia Keshavarz Motamedi wanted to handle this task. |
|  |  |  |
|  |  |  |

**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.

|  |  |
| --- | --- |
| Decision | Rationale |
| Updating test documents | Heungbin Oh, Tien Vu To and Aditya Tambe handled this task. |
| Final test report preparation | Hiu Fung Chan and Trung Kien Phan handled this task. |
| Updating requirement traceability matrix | Arshia Keshavarz Motamedi handled this task. |
| Acceptance Test | Ying Cheung Ellis Fung handled this task. |
| Project review | Arshia Keshavarz Motamedi handled this task. |
|  |  |
|  |  |

**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.

|  |  |  |  |
| --- | --- | --- | --- |
| Member | Task Attempted | Time Spent | Complete? |
| Heungbin Oh | Reviewed the test results and updated the test documents | 7hrs | Yes |
| Tien Vu To | Reviewed the test results and updated the test documents | 7hrs | Yes |
| Arshia Keshavarz Motamedi | Updated the function test matrix based on the test results and reviewed all the documents and source code. | 9hrs | Yes |
| Aditya Tambe | Reviewed the test results and updated the test documents. Worked on scrum report | 7hs | Yes |
| Hiu Fung Chan | Worked on the final test report and recorded the bugs/issues fixed. | 8hrs | Yes |
| Trung Kien Phan | Worked on the final test report and recorded the bugs/issues fixed. | 9hrs | Yes |
| Ying Cheung Ellis Fung | Executed the tests and report the test output with screenshot in Jira and worked on the final test report**.** | 8hrs | Yes |

**SCRUM Tasks Selected for Next Week**:

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

|  |  |
| --- | --- |
| Group Member | Task Description |
| Heungbin Oh | Documents review |
| Tien Vu To | Documents review |
| Arshia Keshavarz Motamedi | Documents review |
| Aditya Tambe | Documents review |
| Hiu Fung Chan | Documents review |
| Trung Kien Phan | Documents review |
| Ying Cheung Ellis Fung | Documents review |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Major Outcomes of Meeting:**

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

|  |  |
| --- | --- |
| Outcome | Impact on Project |
| As we mutually decided that we will raise the issue and assign to ourselves accordingly | This made it easier for all of us to focus on the task which was been issued by us and no need to of other to remind what is been assigned to each other |
| Holding and ensuring to fulfill the commitment | Everyone can select the tasks that they want to do and complete it on time without waiting for assignment. |
|  |  |
|  |  |
|  |  |

**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.

|  |  |
| --- | --- |
| Topic/Work Item | Reason for Success |
| Creating issues | We selected the topic we have expertise on. |
| Meeting the deadlines | As per agreement and topic chose by us, it became easy to deliver the topics on time by providing and submitting it on the time discussed and said in the meeting. |
| Report testing result | Ran and reported the tests on time and recorded all the tests result. |
|  |  |
|  |  |
|  |  |
|  |  |

**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*.

|  |  |
| --- | --- |
| Topic/Work Item | Reason for Problem and How to do Better |
| - | **-** |
| - | **-** |
| - | **-** |

**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?  
     
   Function test matrix is considered as a spreadsheet which covers the test cases and various scenarios that are supposed to be tested. In general, function test matrix could provide a comprehensive overview to describe the testing plan, and it could ensure that developers have already considered all possibilities in terms of the input and data combinations.

By updating the function test matrix on top of the test report would bring us several key advantages as follow: Firstly, function test matrix could greatly enhance the traceability of the project by defining a clear mapping between the software requirements and their corresponding tests. That would consolidate our understanding of which components of the software have been tested or not. Secondly, the introduction of function test matrix would significantly made the tasks more efficient because it allows developers to identify and eliminate those redundant tests, especially when there are multiple test cases found to be testing on the same functionality. Thirdly, the function test matrix would also play an important role in regression testing as it enables developers to discover which tests are necessary to be re-run in order to validate the software changes.

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?  
     
   During completing this project, we always keep conversation open and respectful. To keep everyone in agreement about duties, deadlines, and project goals, regular team meetings whether in person or virtually if it is necessary. As we know, every team member was aware of their specific roles within the project, so we reduced misunderstandings and effort duplication of our works. In most milestones, we always update our progress on WhatsApp and Jira, besides that we have a meeting every week to discuss challenges or problems of the project. Instead of dwelling on setbacks, we worked together to find solutions and adjust our approach accordingly. However, some team members struggled with time management, leading to delays in completing tasks or meeting deadlines. We set more realistic timelines which are suitable for every other team member. Although disputes over project decisions or priorities were uncommon, they sometimes still happen. Each task includes at least 2 members working on it. By doing this way, when a member struggle in the project, another can help to complete it on time. Besides that, we sometimes sit back and discuss more bugs and text cases in the project.
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 improving your team’s performance on the next milestone? Did your team learn from its mistakes and improve? If so, why? If not, why?  
     
     
   Tasks set by the group leader at our first milestone did not produce the desired outcome. It taught us a priceless lesson: it is significantly more efficient to let members choose how they wish to contribute and what responsibilities they have. This change in strategy enhanced the group dynamic as a whole and increased our productivity. It gave us adaptability, allowing team members to participate in various aspects of the project at every stage.

This strategy had a number of important advantages, one of which was that it gave participants experience in both program development and testing. Members were more motivated and involved in their job since they could select the tasks they wanted to complete. Furthermore, participants who had worked on particular activities in past milestones were in a position to offer helpful advice and support to those working on tasks like them in later milestones. The group's cohesiveness and sense of camaraderie were strengthened by this collaborative atmosphere, which improved project efficiency and success.

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?

Throughout the course of our project, we ran into a few flaws that were really difficult to fix. But eventually, with persistence and working together, we were able to take care of them all.

We carried out extensive testing at several stages to guarantee the dependability and functionality of our program. We examined each function in detail and evaluated its performance in various scenarios using both white-box and black-box testing techniques. To assess how these features interacted with one another within the system, we also carried out integration testing. Lastly, acceptance testing was done to confirm that the program operated as intended overall and met all of the requirements.

Even though we have done a lot to reduce defects and guarantee code coverage, we realize that creating software that is completely free of errors is a difficult undertaking. No program can be guaranteed to be completely error-free, as we have stressed throughout our course. Nevertheless, we are sure that we have made the most of our abilities and efficiently used the time at hand to produce a solid solution and the best possible code coverage.