# **MILESTONE 4** -- 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**: 2

**Members Present**:

|  |  |
| --- | --- |
| 1. Theodore | 4. |
| 2. Noah | 5. |
| 3. Armaan | 6. |

## Milestone 4 Tasks

**Deliverables due 4 days after your lab day:**

* Finish implementing/coding the functions.
* Finish implementing/coding blackbox tests. Store in repo, executed, results in Jira (and on corresponding test documents, and debugged.
* A set of whitebox tests as test documents (in an Excel file) with test data for the functions you created. At least 4 sets of test data are required for each function. You must have test cases for at least 6 functions (including all your custom function). Stored in the repository.
* Whitebox tests implemented (in the C++ testing project), stored in repository, executed, results in Jira and on corresponding test documents, and debugged (at least 1 SET is required).
* Updated requirements traceability matrix stored in the repository.
* Completed hook file (for EACH team member) for test automation 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** | Implemented functions and main (well-designed, and documented) | 10% |
| Finish coding blackbox code (well-designed, written, and documented) | 5% |
| Whitebox test case document (well written, complete, good test data) | 10% |
| Whitebox test code (well designed and documented) | 20% |
| Updated requirements traceability matrix | 5% |
| Test execution (performed, results recorded, issues created) | 10% |
| Debugging (bugs fixed, documented, Jira updated) | 5% |
| Hook files | 10% |
| Git usage (used properly with good structure) | 5% |
| Jira usage (creates issues, tracks progress) | 10% |
| Scrum report & reflections | 10% |
| **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** |
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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 |
| Dividing of test cases | **Explaining how to set up the test cases and how to divide them up** | **Everyone does 3 test cases and Theo will figure out what is needed in order for the test cases to work** |
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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? |
| Theo | **3 test or more** |  | **Yes** |
| Noah | **3 different tests** |  | **Yes** |
| Armaan | **3 different test** |  | **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 |
| Theo | Milestone 4 |
| Amraan | Milestone 5 |
| Noah | Milestone 6 |
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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 |
| Settling how to divide the testing | **More effective way of testing** |
| Each person does 3 test and Theo finishes the unit testing | **Since there are 3 more milestones left and 3 members to do it each person will do one and other members will help where it is needed** |
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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 |
| Settling on an agreement | **Everyone was gets involved and has a fair share of work to be done** |
| Settling on division of work |  |
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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 |
| Difficult Times to meet in person | **Different class, work, and other commitment schedules** |
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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. After you run your blackbox and whitebox tests you are asked to record the results in both the original test document as well as in Jira. Explain why it is a good idea to record the results in both places.  
   **The reason it is important to record all the test being done especially for the black and white box testing is because it helps narrow down the different options of inputs when running the program. There are many different combinations of numbers that can be ran, therefore keeping track of these types of test can eliminate a large amount of variations**
2. Why did we wait until the fourth milestone to write the whitebox tests?  
   **Because the first 3 milestones was setting up the program in order for the test to be ran smoothly. Milestone one was used to communicate with the team what needs to be done and how it is going to be done, second milestone is to analyze the code and slow down the process to fully understand what does, and third goes into more depth and labels each functions and what is the purpose of that function**
3. Pick one of the functions you created and list its name. For this function did you produce more blackbox or whitebox tests? Explain why your answer (more blackbox or more whitebox) happens for most functions.  
     
   **TestPopulateMap, it would be the same amount of white and black box testing, and the reason for this is because this is for the whole map and it would be very difficult if both test were not done equally in order to get the right coordinates**
4. Explain the purpose of the automation hook for GIT and explain how it can improve the quality of the software in the project.

**It improves the quality of the software in the project because if it is pushed to git every time after testing it becomes tiring whereas having the bash script can make it easier for the testers to push it when it all passes**