# **MILESTONE 3** -- 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**: \_\_\_\_\_3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

|  |  |
| --- | --- |
| 1.Duc Phu Nguyen | 4. |
| 2. | 5. |
| 3. | 6. |

## Milestone 3 Tasks

In this milestone you will create issues to design the functions, design all of the functions you need to complete the project and store the specifications in the repository. As soon as the specifications start to be produced, you can start to design the blackbox tests (what they test, how to perform them and test data). Once tests are written, they can be implemented and added to the repository and any team members not otherwise busy can start to implement the functions. You will also build a function-test matrix that shows the blackbox tests for each function. This will be maintained through the testing cycle as new tests are added.

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

* A set of AT LEAST 4 function specifications added to a new header file and stored in the repository.
* A set of blackbox 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.
* **Create and add a C++ testing project to your solution.**
* Start writing blackbox test code (for the functions above) and store in repository (at least 1 is required for this milestone).
* Start implementing the functions and store them in repository (optional).
* A requirements traceability matrix added to the repository and shows the mapping between the requirements and test cases.
* Updated Jira project to show activities and progress.
* 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** | Function specifications (documented, complete, well-written, added to the project) | 10% |
| Blackbox test cases document (well-written, complete, good test data) | 15% |
| Blackbox test code (in the C++ project) well-designed and documented | 15% |
| Functions implementation (coded in the C project & well documented) | 10% |
| Requirements traceability matrix (complete and added to GitHub) | 10% |
| Git usage (used properly with good structure) | 10% |
| Jira usage (creates issues, tracks progress) | 10% |
| Scrum report & reflections | 20% |
| **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** |
|  | Test plan and create data structure have completed |  |
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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 |
| Discussion MS3 | **How to create 4 new functions prototype and 2 functions provided and create test case** | **Each member create one function prototype and create mins 4 test case** |
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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? |
| Duc Phu Nguyen | **Create function vailddestination and min 4 test case** |  | **Completed** |
|  | **Write scrum-report MS r Reflections question 1** |  | **Completed** |
|  | **Create form traceability matrix and test case template** |  | **Complete** |
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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 |
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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 |
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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**:

Answer the following questions using your own words. Make sure that each answer comprises a minimum of 100 words.

1. In this milestone, we write the blackbox tests but not the whitebox tests. Explain why we can write the blackbox tests but not the whitebox tests.

There are several reasons why we use black box testing. Firstly, it's easier to develop because it relies solely on input and expected output, without requiring knowledge of the internal code. Secondly, even if the coding is incomplete, black box testing can still be executed to ensure that the functions meet the requirements. On the other hand, white box testing, which focuses on code function and structure analysis, testing tools. However, these may not be available during the development stage. Therefore, black box testing is suitable a practical choice for validating software functionality.

1. Explain why we need the function-test matrix and why it is important in a large project.
2. Other life cycle models left team members idle while waiting for parts of the project to be completed. Describe how an agile model, like the one we are using, avoids this problem and keeps the whole team busy all the time. Does this make managing the project simpler or more complex and why?