# **MILESTONE 3** -- 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**: 4

**Members Present**:

|  |  |
| --- | --- |
| 1. Song Hwan Oh | 4.Sangjune Lee |
| 2. Shine Lee | 5. Ji Ho Nam |
| 3. Yoojin Lee | 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 at end of Lab:**

* Completed SCRUM report and reflections

**Deliverables Due at 23:59 6 Days after Lab:**

* A set of function specifications stored in the repository,
* A set of blackbox tests as test documents with test data for the functions.
* Start writing blackbox test code and store in repository. (at least 1 required)
* Start implementing functions and store in repository. (optional)
* A function-test matrix added to the repository.
* Updated Jira project to show activities and progress.

**Rubric**

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| --- | --- | --- |
| Individual | Group Participation | 75% |
| Teamwork | 10% |
| SCRUM Report | 15% |
| Group | Function Specs (documented, correct, complete, well-written) | 20% |
| Test documents (well-written, complete, good test data) | 20% |
| Test Code (well-designed, written and documented) | 10% |
| Git Usage (used properly with good structure) | 5% |
| Jira Usage (creates issues, tracks progress) | 10% |
| Meets Deadlines | 10% |
| SCRUM report & reflections | 25% |

**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** |
| **Song Hwang Oh** | **SCRUM, Function specs, Testing doc and code(blackbox)** | **N/A** |
| **Shine Lee** | **SCRUM, Function specs, Testing doc and code(blackbox)** | **N/A** |
| **YooJin Lee** | **SCRUM, Function specs, Testing doc and code(blackbox)** | **N/A** |
| **Sangjune Lee** | **SCRUM, Function specs, Testing doc and code(blackbox)** | **N/A** |
| **JI Ho Nam** | **SCRUM, Function specs, Testing doc and code(blackbox)** | **N/A** |
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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** | **N/A** |
| **Reason for delay or block** | **N/A** |
| **Impact on Project** | **N/A** |
| **Solution or work-around** | **N/A** |
|  |  |
| **Delayed or Blocked Task** | **N/A** |
| **Reason for delay or block** | **N/A** |
| **Impact on Project** | **N/A** |
| **Solution or work-around** | **N/A** |

**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 |
| Function Specification | **Function spec doc written together according to new functions written on h file added last week.** | **Function Spec doc Finished** |
| SCRUM | **SCRUM done** | **SCRUM Finished** |
| Testing Functions | **Testing Functions were discussed as it is black box testing** | **Testing Functions written but not executed yet(Execution to be done MS4)** |
| Testing Docs | **Testing Doc completed** | **Testing doc Finished and added to repo** |
| Jira | **Task Schedule setup in Jira** | **Completed** |
| Git | **Git update to each branch** | **Completed** |
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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 |
| Prioritization of tasks | Equal amount of works assigned to each member of team. |
| Testing Decision | We have decided to do tests on map generating and position detection on testing. |
| Testing Functions Implementation | Black box will cover basic functionality like mapping basics. |
| Function Specs | Added function specs on existing h file(finder.h), and documentation completed |
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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? |
| ALL | **Analysis discussion, Analysis of testing requirements in program and discussed** | **1hr** | **Yes** |
| ALL | **Analysis discussion, Analysis Function Specs in program and discussed** | **1hr** | **Yes** |
| ALL | **Scrum report** | **30min** | **Yes** |
| ALL | **Jira and Github Project page updated and assigned** | **30min** | **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 |
| Sangjune Lee | Jira control |
| ALL | Meeting on July 24th Monday 9pm to 11pm |
| ALL | SCRUM , Reflection |
| ALL | Test Execution including White box testing codes and MS3 Blackbox testing |
| ALL | Debugging |
| ALL | Function implementation |
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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 |
| Function specs | **Function specs written as group using the data structure implemented in MS2** |
| Testing doc | **Documentation completed as group agreed upon in meeting** |
| Testing codes | **Black box testing code implemented according to discussion in meeting.** |
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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 |
| SCRUM | All contributed. |
| Git | **Useful for version control and keeping track of changes** |
| Meeting | All attended second meeting. |
| Documentations | **All documented, testing and function specs** |
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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 |
| N/A | N/A |
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**Reflections**:

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.

In this milestone, we focus on writing blackbox tests rather than whitebox tests. The reason for this is that we have limited knowledge about the internal workings of the system being tested. Without a deep understanding of the system's internal structure or code, it is more practical to design tests based on the system's expected behavior and functionality. Blackbox testing allows us to evaluate the system's performance from an end-user's perspective, without relying on knowledge of its internal implementation.

1. Explain why we need the function-test matrix and why it is important in a large project.

The function-test matrix is a structured representation that correlates functions or features with corresponding test cases, ensuring comprehensive test coverage, traceability, risk assessment, and optimized resource allocation in large projects. It facilitates communication, aids regression testing, and serves as valuable documentation for future reference and compliance purposes.

1. 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?

In an agile model, the project is divided into smaller parts called sprints. Each sprint has a specific goal and a set duration, allowing the team to stay busy and engaged.

To keep the whole team involved, they work closely together and communicate regularly. This ensures that everyone is aware of the project's progress and can support one another. The agile model simplifies project management by providing clear goals, promoting teamwork, and enabling easy adaptation. The team works in smaller increments, receives frequent feedback, and continuously improves their work to ensure they are on the right track.