# **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**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_6\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

|  |  |
| --- | --- |
| 1. Shaheer | 4. Maharshi |
| 2. Pujan | 5. |
| 3. Jeelkumar | 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** |
| Shaheer Ali Khan | Scrum Report + Reflection Question 1 + Test Plan | - |
| Maharshi Patel | Reflection Question 2,3 + Test Plan | - |
| Jeel Kumar | Adding data structure in Test.h file | - |
| Pujan | Meeting Participation | - |

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 |
| Assigning the tasks | Shaheer Ali Khan: responsible for the traceability-matrix + scrum report + reflection question 1 + function and test description documents. | **-** |
|  | Jeel kumar: will be creating Blackbox testing + responsible for test description documents. | **Work is good but sometimes takes a lot of time** |
|  | Pujan Shah: responsible for function specification and implementation. | **There are multiple mistakes, and the work is unorganized, resulting in slower progress in completing the project.** |
|  | Maharshi Patel: fixing returnDistance function + function implemntations. | **Relatively easy to work with and prompt responses.** |

**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 the task:  -Function specifications  -Creating test cases  -Creating functionality test  -Testing | To plan carefully in order to complete the project without ambiguity. |
| Assigning work |  |
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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? |
| Shaheer Ali Khan | Discussion + assigning work | 30 mins | **yes** |
| Jeel Kumar | work assigned & discussed issues | 30 mins | **yes** |
| Maharshi Patel | work assigned & discussed how we can improve things | 30 mins | **yes** |
| Pujan Shah | work assigned | 30 mins | **yes** |

**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 |
| Project Manager | Will designate with the task in the next week. |
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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 |
| Work assigned | Group members can prepare according to their roles. |
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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 |
| Problem-solving | Participants were able to come up with solutions when tester specify the issues. |
| Participation | Most members are eager to help each other 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 |
| Ineffective communication | Individuals were focused on their individual work rather than actively engaging in group communication. Additionally, there might have been a lack of consideration for the testing process during code development.  **Solution**: Foster collaboration and communication among developers and testers so that the project can be completed smoothly. |
| The lack of showing initiative to improve performance | Some members have received feedback about their ineffective work but haven't improved their performance in the second work assigned. |
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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.

We conduct Blackbox testing to verify if the function prototypes we create fulfill the requirements of the milestone. At this stage, we do not need to concern ourselves with the internal structure. Instead, our focus is to ensure that the software's features align with the intended functionality. Additionally, performing early-stage testing allows us to identify and address any issues that may arise from our software design before implementing the code. This approach is beneficial as it saves time by avoiding the scenario where we implement the code and later discover issues that could have been caught earlier.

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

We need the function-test matrix because they provide a detailed overview of the tests that will be conducted during the testing phase. This gives the team, particularly the developers, a general idea of where they should allocate their time and resources. The matrix also helps the team identify if they need additional test cases, as they provide insight into any potential gaps in the existing test cases.

The function-test matrix is crucial for large projects because it helps focus on specific problems that must be tested during the testing phase. Without it, understanding how to prepare for the test cases and plan ahead would be challenging.

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?

The Agile model solves the problem of team members being idle while waiting for specific project milestones by fundamentally changing the approach to project management. Instead of focusing on deliverables and their due dates, Agile breaks the project into smaller, solvable problems. Unlike traditional project management, where team members may remain idle if a deliverable delay the entire project, Agile allows team members to assign themselves additional work.

In the Agile method, work is divided into independent pieces, and larger tasks can be further broken down into smaller problems. This ensures that each piece of work is separate from others, making it easy to avoid situations where multiple team members are idle. With Agile, each team member simply selects a manageable piece of work to avoid idle time.