# **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**: 02

**Members Present**:

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| --- | --- |
| 1.Preet Chakrani | 4.Jeny Prakashbhai Rangani |
| 2.Yagnik Dhankara | 5.Sakshi Sakshi |
| 3.Niyatiben Narendarbhai Patel | 6. Harjovan Singh |

## 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** |
| Niyatiben Patel (Technical lead), Sakshi Sakshi (Project Manager) | Updating GitHub repository regularly by merging the branches and assigning tasks on jira to each team member. | **N/A** |
| Niyatiben Patel, Sakshi Sakshi, Jeny Rangani, Preet Chakrani, Yagnik Dankhara, Harjovan Singh | Make a scrum report including answering reflection questions | **N/A** |
| Niyatiben Patel, Sakshi Sakshi, Jeny Rangani, Preet Chakrani, Yagnik Dankhara, Harjovan Singh | Create a detailed test plan for the project | **N/A** |
| Niyatiben Patel, Sakshi Sakshi, Jeny Rangani, Preet Chakrani, Yagnik Dankhara, Harjovan Singh | Updating test.h and test.cpp files | **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** |  |
| **Impact on Project** |  |
| **Solution or work-around** |  |
|  |  |
| **Delayed or Blocked Task** | **N/A** |
| **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 |
| Understanding the requirements of the milestone | **Examining each milestone requirement and discussing important points and tasks and learning about each other’s strengths and weaknesses in terms of technical knowledge.** | Increased familiarity among teammates and a better understanding of the group project. |
| Assigning tasks | **Delegating each member, a specific task based on their interests and abilities** | **Proper distribution of workload** |
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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 |
| we will make a test plan first and then according to that proceed further to do the group work by thoroughly understanding the requirements | -proceed step by step and collaborate with other team members  -follow the plan and help the other team member if they face any kind of problem. |
| Ensuring the timely completion of scrum report – Preet Chakrani, Yagnik Dankhara, Jeny Rangani, Harjovan Singh | The decision was made collectively on the basis of mutual understanding and depending on the selected team member’s exceptional abilities |
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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? |
| Niyatiben Patel, Sakshi Sakshi, Jeny Rangani, Preet Chakrani, Yagnik Dankhara, Harjovan Singh | **Deep analysis of the milestone requirements during which each team member suggested their views.** | **1 hour** | **Yes** |
| Niyatiben Patel, Sakshi Sakshi, Jeny Rangani, Preet Chakrani, Yagnik Dankhara, Harjovan Singh | **Completion of all information required to fill in tables in the scrum report and answer reflection questions.** | **1 hour** | **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 |
| Niyatiben Patel | Maintain Github repository |
| Sakshi Sakshi | Maintain jira account and assign tasks to team members |
| Jeny Rangani | Complete Scrum Report |
| Preet Chakrani | Write Test Code |
| Yagnik Dankhara | Answer Reflection questions |
| Harjovan Singh | Write Test documents |
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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 |
| Increased familiarity among teammates and better understanding of the group project. | **Better time management and increased productivity of team members.** |
| Proper distribution of workload | **Timely submission of proper and well-thought-out milestone 1.** |
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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 |
| Equal distribution and delegation of tasks required to be completed | Based on each team member’s abilities and interests and with mutual understanding. |
| Proper analysis of the milestone | **Active participation in group discussions and proper communication among team members.** |
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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.

We have to conduct Blackbox testing to verify if the function prototypes created by us fulfill all the requirements of the milestone. In this milestone, we do not need to concern ourselves with the internal structure. That is why, we are not creating white box tests. Instead, our focus is to ensure that the software's features align with the intended functionality. Additionally, we do not have to concern about the code and logic at this stage as it will be tsted during white box testing.

1. Explain why we need the function-test matrix and why it is important in a large project.  
     
   It is 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. It 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 will be challenging for any group.
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?

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 and 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 just have to select a manageable piece of work to avoid idle time.