# **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**: \_\_\_\_\_\_\_\_\_\_\_\_\_E\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

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| --- | --- |
| 1.Jay Vijaykumar Vakil | 4. Srujal Patel |
| 2. Harsh Dugar | 5. Viren Vaishnav |
| 3. Mohit Sheth | 6. Hetav Mamtora |

## 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** |
| **Jay Vakil** | **I contributed in the development and desigining the test plan, coming up with appropriate data structures that can fulfil the requirements of the project.** | **None** |
| **Mohit Sheth** | **The main task I completed last week was helping in creating a test plan. This involved identifying the objectives, designing the testing approach, and outlining how the specific tests and tasks are to be executed. I also assisted in completing the scrum report. This involved collecting and organizing relevant information for the report.** | **None** |
| **Harsh Dugar** | **I helped in defining and structuring the test cases required to complete the project. I also assisted in completing the scrum report.** | **None** |
| **Viren Vaishnav** | **Last week, I made significant contributions to the development of the project's data structure. I conducted an in-depth study of the project, enabling me to identify the necessary data elements required for creating an efficient data structure. By implementing best practices, I ensured the smooth functioning of the project.** | **None** |
| **Hetav Mamtora** | **Last week, I was assigned my input in creating data structures. I contributed to the creation of data structures including. Package, Truck, and Shipment. Also, I also wrote one of the answers for the reflection questions of the scrum report** | **None** |
| **Srujal Patel** | **In the last week’s project, I was assigned to define and create the test cases for the data structures. Also, I had to write one of the answers for the scrum report.** | **None** |
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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 discussed in the meeting and the outcomes of the discussions.

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| Topic | Discussion Summary | Outcome |
| Dividing the tasks | **There are several deliverables so everyone will be working on the things which they can do the best of their capabilities** | **Assigned the tasks for this week to each member.** |
| Being active on JIRA | **Reviewing what the professor said in the lecture we have decided that each member will be more active on JIRA** | **Everyone Agreed to be more active and take part in the discussions.** |
| Reflection questions | **Discussing the topics involved in this week’s milestone which helped in answering the reflection questions** | **Answered 2 of the questions in the meeting itself.** |
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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 |
| Reviewing the code | This would help in specifying the functions |
| Complete the specifications in 2 days | So that the members who are going to work on the test cases can start their work. |
| Implement two of the functions | One of the members is going start with the implementation of the functions. |
| Send the files to team lead one day before the submission | This would help him in going over everything one last time and have time to make changes if any needed and push it to GitHub. |
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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? |
| Jay | **Test Plan – Introduction** |  | **YES** |
| Mohit | **Started with reviewing the tasks and deliverables of this week’s milestone and tried to answer one of the reflection questions** | **30min** | **YES** |
| Harsh | **Suggested making the test cases and making the traceability matrix. Also, learning and setting up the github properly for every member of the group** | **30 min** | **Yes** |
| Viren | **Planning to make test scenario and help to answer reflection question** | **30 min** | **YES** |
| Hetav | **Suggested and made required structures as well as planned how the project might go with or without those structures. Added his inputs and kept points on necessary structures.** | **30** | **YES** |
| Srujal | **Reviewed the milestone thoroughly and wrote one of the answers for the scrum report. Also, made a brief idea for generating test cases.** | **30 mins** | **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 |
| Mohit Sheth | Starting making the function test matrix and helper functions. |
| Jay Vakil | Starting framing the projects and the functions, along with making the unit test project to be included in the code. |
| Harsh Dugar | Starting making up of test cases. |
| Viren Vaishnav | List down the test scenario for testing |
| Hetav Mamtora | Test cases |
| Srujal Patel | The building and executing of test cases. |
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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 |
| Split Loads | **Delegated tasks for upcoming milestone/week and planned it** |
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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 |
| Participation | **All team members were present during the meeting so we could collectively figure out the problems at hand.** |
| Good understanding of the project | **All the participants understood and had input regarding the code** |
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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**:

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 are focusing on creating the function specification and describing them and then creating blackbox test cases based on the description of the function. Since we are working on such a high level of abstraction and just focusing on the behavior of the code and what it is going to do without reviewing the code implementation. On the other hand, white box testing requires a deeper knowledge of the code structure and how each function works to give the desired output.

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

In large projects, the function-test matrix assures that every project functionality has been tested. This is especially critical in large projects, as it is all too easy to overlook or miss test functionality. The function-test matrix can assist you in identifying all the many functions that must be evaluated and ensuring that they are appropriately and systematically reviewed the function-test matrix in the project description would aid in ensuring that all conceivable delivery scenarios were considered. The matrix, for example, would need to contain tests for delivering products to locations on one of the trucks' routes, as well as tests for delivering packages to locations not on any of the vehicles' routes. The matrix should also include tests for delivering items close to one of the trucks' routes as well as tests for delivering items far from any of the vehicles' routes.

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?

By using many crucial tactics, an agile approach successfully handles the problem of team members sitting about waiting for project components. Cross-functional teams are first established to guarantee that all essential resources are available to finish the project. Second, teamwork is prioritised, allowing participants to work on many projects concurrently rather than waiting on dependencies. Third, an incremental and iterative development strategy is used to create workable product increments continuously, keeping the team active and involved. Fourth, ongoing input and modification are accepted to make sure that any challenges or bottlenecks are quickly resolved. While managing an agile project might be easier because of improved openness and flexibility, it can also be more difficult since it calls for excellent teamwork and constant stakeholder interaction. Successful project management in an agile paradigm depends on balancing these aspects and establishing effective communication.