# 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. All students are expected to attend the in-class SCRUM meetings and to participate. Failure to do so will result in greatly reduced grades.

**GROUP**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_E\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

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

## Milestone 4 Tasks

**Deliverables Due at end of Lab:**

* Completed SCRUM report and reflections

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

* Implemented Functions
* Implemented blackbox tests (store in repo), executed (results in Jira and on corresponding test documents) and debugged,
* whitebox tests written and stored in repository.
* whitebox tests implemented (store in repo), executed (results in Jira and on corresponding test documents) and debugged.
* Updated function-test matrix stored in the repository.
* Completed hook for test automation

**Rubric**

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| --- | --- | --- |
| Individual | Group Participation | 75% |
| Teamwork | 5% |
| SCRUM Report | 10% |
| Automation Hook | 10% |
| Group | Implemented Functions (well-designed, written and documented) | 20% |
| Whitebox tests (well-designed, written and documented) | 20% |
| Test Execution (performed, results recorded, issues created) | 20% |
| Debugging (Bugs fixed, documented, Jira updated) | 5% |
| Git Usage (used properly with good structure) | 5% |
| Jira Usage (creates issues, tracks progress) | 5% |
| Meets Deadlines | 5% |
| SCRUM Report and Reflections | 20% |

**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 made the implementation for one of the functions along with figuring out the most of function prototypes for the project.** | **None** |
| **Mohit Sheth** | **Helped in writing all the details in the scrum report that took place in the meeting along with that made test cases for function which helped in making the traceability matrix.** | **None** |
| **Harsh Dugar** | **Made the whole traceability matrix along with making test cases for the validateinput() function.** | **None** |
| **Viren Vaishnav** | **Helped in making test cases for the function validateinput() and figuring out the prototypes of function** | **None** |
| **Hetav Mamtora** | **Came up with testcases for two of the functions as well as took the test cases provided by other members and verified it as well as made necessary changes.** | **None** |
| **Srujal Patel** | **Helped in making the test cases and helped in completing the scrum report in the team meeting.** | **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** | **Test cases** |
| **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 |
| Time management | **Submit the files to the team lead a day before so that he can review them properly let you know if there are any changes to be made unlike last week** | **Submit the files a day before and let the team lead know if there are any delays** |
| Whitebox testing | **Why we are doing the whitebox testing in this milestone and what do we need to understand before starting the project** |  |
| Implimenting the functions | **Going through the project pdf again to rewise what is the loginc that we need to build** | **What the whole project is about.** |
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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? |
| Srujal | **Answered the 4th question of reflection** | **10mins** | **YES** |
| Mohit | **Helped in answering the 2nd question of reflection and completed the scrum report.** | **15mins** | **YES** |
| Jay vakil | **Assigned the next week's tasks to everyone.** | **15mins** | **YES** |
| Harsh Dugar | **Answered the 1st question of the reflection.** | **10mins** |  |
| Viren Vaishnav | **Answered the 3th question of reflection** | **10mins** | **YES** |
| Hetav Mamtora | **Answered the 2th question of reflection** | **10mins** | **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 |
| Jay Vakil | Function Implementation and unit tester implementation, checking and inputing the test cases. |
| Harsh Dugar | Run the |
| Mohit Sheth | Helping with the implementation of the functions and completing the SCRUM report for this week |
| VIREN VAISHNAV | Write the white box test cases for the implemented function |
| Srujal Patel | Completing the scrum report and generating the whitebox test cases for the functions. |
| Hetav Manojkumar Mamtora | Working with tester as well as verifying and running all the testcases given, also help in modification of tester as well as elaborating on requirements of testcases. |
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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 |
| Everybody was present for the meeting | **Every single team member was responsible for showing up for the meeting.** |
| The tasks were divided properly | **Very body picking what they can do at the best of their ability.** |
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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. After you run your blackbox and whitebox tests you are asked to record the results in both the original test document as well as in Jira. Explain why it is a good idea to record the results in both places.

Upon completion of executing both types of test cases, it is required to document the results in both the original test document and JIRA. This is due to the fact that the original document presents a comprehensive outline of the testing approach, test cases, and anticipated test outcomes. Additionally, the team employs JIRA as a platform for problem tracking and project management purposes. The inclusion of test findings in both locations enhances the capacity to track and document the testing process. For instance, in cases where it becomes necessary to retrospectively assess the testing procedure or comprehend the test execution chronology, the documentation of results in two distinct locations serves as an additional means of validation, guaranteeing the accurate recording of testing activities.

1. Why did we wait until the fourth milestone to write the whitebox tests?

Whitebox testing is a commonly employed technique in software testing that primarily focuses on evaluating the internal structure and logic of the software. Effectiveness may be contingent upon the presence of a clearly delineated codebase. The development team strategically chose to defer the implementation of certain features until the fourth milestone. This decision was made in order to prioritize the completion of the fundamental functionalities of the code. By doing so, the team aimed to provide a robust groundwork for the subsequent whitebox tests. Moreover, it is important to note that each milestone in the progression is constructed upon the foundation established by its predecessor. By deferring the writing of whitebox tests until the fourth milestone, the team creates an opportunity for enhancing and optimizing the codebase. This phenomenon has the potential to result in the development of components that are better designed and code that is more reliable. Consequently, this allows the generation of whitebox tests that are more effective in nature.

1. For a given function did you produce more blackbox or whitebox tests? Explain why your answer (more blackbox or more whitebox) happens for most functions.

Typically, we tend to prioritize the creation of blackbox tests over whitebox tests for the majority of functions. Blackbox testing is a critical component in verifying that the functions of a system adhere to the designated requirements and perform as anticipated from the perspective of the end-user. This feature enables me to verify the functionality without necessitating a comprehensive understanding of the internal implementation intricacies. During the initial phases of testing, when the codebase may not be completely developed or stable, blackbox tests prove to be highly advantageous. This is because they can be formulated solely based on the documented requirements. Whitebox testing is a valuable approach for analyzing the internal logic and structure of functions. However, it typically necessitates a deeper understanding of the codebase. Consequently, I have a tendency to prioritize blackbox testing in order to validate the functionality and ensure the stability of the system, before proceeding to whitebox tests for more comprehensive testing and optimization purposes.

1. Explain the purpose of the automation hook for GIT and explain how it can improve the quality of the software in the project.

Automation hooks enable us to customize and perform various tasks while maintaining the consistency of processes and improving the project's software quality. Automation hooks in Git are put in the repository's.git/hooks directory and have predefined names that match to various Git workflow events. Automation hooks are used to execute certain actions within the project, validations, ensuring that specific checks or tasks are executed consistently by all team members. These hooks are executed at critical times in the workflow, such as before or after specific Git tasks, and can dramatically improve the quality of the product. It also maintains the consistency of the code, testing, validation, reviews the code, prevents the information leak, etc.