# 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**: \_\_\_\_\_\_\_\_\_\_\_\_5\_\_\_\_\_\_\_\_\_

**Members Present**:

|  |  |
| --- | --- |
| 1.Prabhjot Singh | 4.Siya Khanna |
| 2.Dhruv Kakadiya | 5.Sampreet Klair |
| 3.Prince Prince | 6. |

## 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** |
| **Prabhjot Singh** | **Automation Hook, reflection and scrum report and helped with Whitebox testing** |  |
| **Siya Khanna** | **Function implementation** |  |
| **Dhruv Kakadiya** | **White box Testing** |  |
| **Prince Prince** | **implemented Blackbox tests (store in repo), executed (results in Jira and on corresponding test**  **documents) and debugged,** |  |
| **Sampreet Klair** | **Updated function-test matrix stored in the repository.** |  |
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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 discusses in the meeting and the outcomes of the discussions.

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| --- | --- | --- |
| Topic | Discussion Summary | Outcome |
| Hook Files | **Done** |  |
| White Box Tests | **Done** |  |
| Black Box Tests | **Done** |  |
| Function Implementation | **Partially Done** |  |
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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 |
| Black Box tests | Done by Prince |
| White Box Tests | Need time to be completed |
| Function Implementation | Delayed little |
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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? |
| Prabhjot Singh | **Reflection, Scrum and Hook files** | **25 min** | **Yes** |
| Prince Prince | **Discussed about some possible tests** | **15 min** | **Yes** |
| Dhruv Kakadiya | **Implemented some Whitebox Tests** | **20 min** | **Half is done** |
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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 |
| Prabhjot Singh | Scrum, Reflection , task allocation and integration tests |
| Dhruv Kakadiya | Management of Jira and Work on integration tests |
| Sampreet Klair | Acceptance tests |
| Siya Khanna | Test execution and debugging |
| Prince Prince | Finishing the rest of tests |
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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 |
| Hook files Creation | **Almost done** |
| Blackbox tests | **Made the tests for Project** |
| WhiteBox tests | **Made the test to check if it works** |
| Function Implementation | **A success towards the 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 |
| Black Box Test discussion | **Everybody gave ideas** |
| White Box Test discussion | **Teamwork** |
| Function Implementation | **Everybody tried to contribute** |
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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 |
| Nothing | **Everything went well** |
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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.  
     
   There are various advantages of doing this:

1. It enhances the traceability because each test in the test document can be helpful to assign some tasks and do the corresponding developmental tasks.

2. It helps in a good communication among the team members and also support metric generation for the comprehensive reporting.

3. This practice provide us a comprehensive insight into the testing process.

Overall , we can say that doing these things enhances documentation, collaboration , reporting and project transparency.

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

It is a strategic decision in the software development cycle. Earlier, we focused on creating the functionalities warranting the Blackbox tests first. Since in Whitebox test, we delve into the logic more briefly , we should done it when we have stabilized the code base. this sequencing ensures that both the functional and structural aspects of the software are thoroughly tested, optimizing the testingprocess.

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.  
     
   For the given functions, we produced more Blackbox tests as usual. Blackbox tests primarily focus on the external behavior and functionality of a function, simulating real-world usage scenarios. We think as what user can enter and we try to work good with that because we are developing it for them. Whitebox tests, on the other hand, are more intricate and examine the internal logic and code paths. They are important for handling the edge cases , So, The emphasis on Blackbox testing aligns with validating the overall functionality and user experience.
2. Explain the purpose of the automation hook for GIT and explain how it can improve the quality of the software in the project.

The benefits of doing automation hook is that:

1. Running tests before pushing ensures that any introduced bugs or failures are caught early in the development process.
2. It helps in uniform testing for all the team members.
3. Automating tests saves time for developers by running the test suite automatically.
4. We can enforce the testing standards according to the project requirement.

It enhances the quality by preventing the early developmental issues and ensuring that only thoroughly tested and high-quality code makes its way into the version control system.