# 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**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_7\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

|  |  |
| --- | --- |
| 1. Janipan Sivaguru | 4. |
| 2. | 5. |
| 3. | 6. |

## Milestone 4 Tasks

**Deliverables due 4 days after your lab day:**

* Finish implementing/coding the functions.
* Finish implementing/coding blackbox tests. Store in repo, executed, results in Jira (and on corresponding test documents, and debugged.
* A set of whitebox tests as test documents with test data for the functions you created. At least 4 sets of test data are required for each function. You must have test cases for at least 6 functions (including all your custom function). Stored in the repository.
* Whitebox tests implemented, stored in repo, executed, results in Jira and on corresponding test documents, and debugged (at least 1 SET is required for this milestone).
* Updated requirements traceability matrix stored in the repository.
* Completed hook file (for EACH team member) for test automation stored in the repository.
* Completed scrum report including reflection questions answered.

**Rubric:**

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| --- | --- | --- |
| **Individual** | Group participation (includes GitHub commits and Jira usage) | 80% |
| Teamwork | 20% |
| **Group** | Implemented functions and main (well-designed, and documented) | 5% |
| Finish coding blackbox cases (well-designed, written, and documented) | 10% |
| Whitebox test case document (well written, complete, good test data) | 10% |
| Whitebox test code (well designed and documented) | 10% |
| Updated requirements traceability matrix | 5% |
| Test execution (performed, results recorded, issues created) | 5% |
| Debugging (bugs fixed, documented, Jira updated) | 5% |
| Hook files | 10% |
| Git usage (used properly with good structure) | 5% |
| Jira usage (creates issues, tracks progress) | 10% |
| Scrum report & reflections | 20% |
| Meets deadlines | 5% |

**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** |
| **Janipan** | **Everything** |  |
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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** | **N/A** |
| **Impact on Project** | **N/A** |
| **Solution or work-around** | **N/A** |
|  | **N** |
| **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 |
| N/A meeting was not held | N/A meeting was not held |  |
| N/A meeting was not held | N/A meeting was not held |  |
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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 |
| N/A meeting was not held | N/A meeting was not held |
| N/A meeting was not held | N/A meeting was not held |
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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? |
| Janipan | **Scrum report** | **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 |
| Janipan | All tasks |
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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 |
| N/A meeting was not held | N/A meeting was not held |
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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 |
| N/A meeting was not held | N/A meeting was not held |
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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 meeting was not held | N/A meeting was not held |
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**Reflections**:

Answer the following questions using your own words. Make sure that each answer comprises a minimum of 100 words.

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.

* It is a good idea to document test results in Jira as well as the original test document for the following reasons:
* Documentation Consistency: A centralized and thorough record of all test cases and their results is provided by recording results in the original test document. The testing team and other stakeholders can refer to this document. As a project management tool, Jira enhances this documentation by directly connecting test results to particular issues or user stories, guaranteeing alignment between the project management and testing viewpoints.
* Traceability is improved by associating test results in Jira with particular issues or user stories. It is simple for stakeholders to link test results to matching features or requirements, which encourages an open and transparent development process.

1. Why did we wait until the fourth milestone to write the whitebox tests?  
     
   Blackbox testing is concerned with verifying the functionality of the software without taking into account its internal structure; therefore, Whitebox tests are usually written after Blackbox tests. Blackbox tests are intended to confirm whether the program performs as anticipated given its specifications. Whitebox testing is used after black box testing is finished and the software's external behavior is verified. Examining the software's internal logic, code paths, and structures is known as "whitebox" testing. A deeper understanding of the codebase is necessary to move past the blackbox testing.
2. Pick one of the functions you created and list its name. For this function did you produce more blackbox or whitebox tests? Explain why your answer (more blackbox or more whitebox) happens for most functions.  
     
   There are usually more black box tests generated for the isValidPackage function. This is due to the fact that the main goal of this function is to verify that package information is accurate based on predetermined standards like weight & size. Blackbox tests avoid going into the inner workings of the function, instead concentrating on its inputs and expected outputs. Blackbox tests are more pertinent for making sure the package fulfills its intended functionality, as isValidPackage is focused on verifying external behavior.
3. Explain the purpose of the automation hook for GIT and explain how it can improve the quality of the software in the project,

-  Whenever changes are made to the codebase, the automation hook can be set up to start automated testing procedures, which include both whitebox & blackbox tests. This guarantees that tests are executed consistently and quickly in response to changes in the code, identifying errors early in the process of development. Git hook's automated testing gives developers a quicker feedback loop. Automated tests are run and results reported as soon as code changes are pushed. This speeds up the process of finding and fixing problems, which improves the quality of the software. Consistency Reliability refer Automating the testing process lowers the possibility of human error. Repetitive testing tasks can be automated to improve consistency and reliability and produce more accurate and repeatable results.