# 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**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

|  |  |
| --- | --- |
| 1. Leo Ru | 4. Frank Fu |
| 2. WaiSun Lam | 5. Kam Chun Stanley Tung |
| 3.Xinyang Ma | 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** |
| Frank Fu | **Function implementation** |  |
| Leo Ru  WaiSun Lam  Xinyang Ma | **Blackbox/whitebox test cases, blackbox/whitebox test code** |  |
| Kam Chun Stanley Tung | **Reflection, function-test matrix,hook** |  |
| Leo Ru  WaiSun Lam  Xinyang Ma  Kam Chun Stanley Tung  Frank Fu | **Scrum report** |  |
| Xinyang Ma | **Update Jira** |  |
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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 |
| Function implementation | **Discussed/reviewed and suggested changes for function implementation** | **approved** |
| Blackbox/whitebox testing | **Reviewed and discussed** | **approved** |
| Reflection | **Reviewed and discussed** | **approved** |
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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 |
| Continue with necessary function implementation and testing | This ensures that the program runs as expected |
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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? |
| Team | **Function testing for findTruckForShipment** | **30** | **No** |
| Team | **Scrum Report** | **30** | **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 |
| Frank Fu | Acceptance test |
| Stanley Tung | Reflection, matrix |
| Leo Ru  XinYang Ma  Wai Sun Lam | Integration test |
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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 |
| Tasks assigned for next milestone/ Completion of scrum report 4 | **Everyone on the same page and knows what needs to be done** |
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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 |
| quickly decided on division of labor without conflict | current phase of assignment has clearly outlined deliverables that made it easy for group members to understand the necessary tasks as well as likely workloads involved |
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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.  
     
   i) Keeping the results in both places ensure there is a well-documented record of the testing process. The original test document records detailed testing activities including area of testing, propose of testing, expected results and actual results. On the other hand, Jira provides traceability between the testing activities and bug tracking.

ii) Keeping the results in both places facilitates reporting. Different stakeholders of our project may have different requirements for the report. The original test document can be used as a source for a high-level summary of the overall testing process, while Jira has many built-in reports such as average age report, resolution time report and recently created issues report. This dual recordkeeping helps in comprehensive reporting.

1. Why did we wait until the fourth milestone to write the whitebox tests?  
     
     
   The reason for doing whitebox tests in milestone 4 is possibly because of code readiness and learning progression. In milestone 3, our focus is on function specification, so many of our codes are not quite ready for whitebox tests. In milestone 4, our codes are more stable and complete, so it becomes practical to conduct whitebox testing. Additionally, whitebox testing is generally harder to perform compared with blackbox testing since it requires knowledge of the internal code. Conducting blackbox tests in milestone 3 and then whitebox tests in milestone 4 facilitates a progressive learning experience for students.
2. 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.  
     
     
   We produce a similar number of black box and white box tests for a given function because both black box and white box testing are important and complementary approaches to ensure comprehensive test coverage. Bugs can exist at different levels, ranging from high-level functionality to specific code paths. By using both black box and white box testing, we can increase the chances of detecting different types of defects, leading to a more robust program.
3. Explain the purpose of the automation hook for GIT and explain how it can improve the quality of the software in the project.

The purpose of the automation hook for GIT is to ensure that certain standards, tests, or procedures are followed consistently by all developers working on the project. Taking the pre-push hook suggested in milestone 4 as an example, its purpose is to validate files against specific criteria before they are added to an online repository.

Automation hook for GIT can improve the quality of the software in the project because it enforces standard. If any codes do not meet the defined standards, the push will be rejected, forcing developers to review their codes and make necessary change. Additionally, automation hook can prevent errors. The hook acts as a net to catch potential mistakes or issues. This helps avoid situations where wrong or incomplete code gets into the shared repository, reducing the need for time-consuming bug fixes later.