# 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**: **2**

**Members Present**:

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| --- | --- |
| 1. Faaz Sherwani 113026223 | 4.Iraklis Tsanachtsidis 122226228 |
| 2.Frank Prerez 141647222 | 5.Aum Rasikbhai Parsana 112872221 |
| 3.Tarun Thomas 113605224 | 6.Rutarj Mrushad Shah 170870216 |
| 7. Jubril Olawale Akolade 167529213 |  |

## Milestone 5 Tasks

In this milestone, you should write, implement, and execute integration tests. Integration tests test how multiple functions work together to complete a task. Depending on what is being tested, you might be able to write unit tests to do the testing and automatically compare the results. In other cases, you might need to manually check the output to check it. This will all be stated in the tests where it discusses how they should be run.

As you update the function-test matrix, you will need to add a very brief description for each integration test so the matrix will clearly show what the tests are testing. Acceptance tests will be tested against actual user requirements and will list all the tests for each requirement.

Acceptance tests are the final tests and are largely aimed at showing the customer that the correct output is produced for different inputs. This will largely require manual testing.

**Deliverables Due at end of Lab:**

* Completed SCRUM report and reflections

**Deliverables Due at 23:59 12 Days after Lab:**

* integration tests written and stored in repository,
* integration tests written (store in repo), executed (results in Jira and in test documents) and debugged.
* acceptance tests written and stored in repository.
* Updated function-integration-requirements-test matrix stored to the repository.

**Rubric**

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| --- | --- | --- |
| Individual | Group Participation | 75% |
| Teamwork | 10% |
| SCRUM Report and reflections | 15% |
| Group | integration tests (well-designed, written and documented) | 20% |
| acceptance tests (well-designed, written and documented) | 20% |
| Test Execution (performed, results recorded, issues created) | 15% |
| Debugging (Bugs fixed, documented, Jira updated) | 5% |
| Function-test matrix 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** |
| **Iraklis Tsanachtsidis** | **SCRUM REPORT, writing, implementation and execution of integration tests,Execute the integration test and ensure it passes**, **git** |  |
| **Frank Prerez** | **Jira assignments, SCRUM Report, git, Implement the integration test in the test suit** |  |
| **Tarun Thomas** | **git, SCRUM Report, Implement the integration test in the test suite.Execute the integration test and ensure it passes** |  |
| **Faaz Sherwani** | **SCRUM Report, Write integration tests for a new set of functions that were recently added to the project, Implement the integration tests in the test suite.** |  |
| **Aum Rasikbhai Parsana** | **Implemented Functions, white box testing, SCRUM Report,execution of blackbox testing, creation of of new issues for the failed tests** |  |
| **Rutarj Mrushad Shah** | **SCRUM Report, git, Execute the integration test and ensure it passes , Implement the integration test in the test suite.** |  |
| **Jubril Olawale Akolade** | **SCRUM REPORT, Help with the overall integration testing process and report any uncovered issues, git** |  |

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 |
| Integration Test Planning for Milestone 5 | **discussed how to do integration tests to make sure that various functions work together seamlessly.** | **Established a comprehensive plan for integration testing with clear responsibilities.** |
| Split of tasks into each group member | **Each team member was given a distinct integration test job covering important situations.** | **Organized and great team work towards the completion of the milestone** |
| Acceptance Test Strategy | **Discussed how to conduct acceptance tests to confirm that client criteria are satisfied.** | **Set up a testing environment to mimic end-users' scenarios for accurate testing.** |
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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 |
| For acceptance testing, set up a testing environment that closely resembles the settings used by end users. | The team understood the need of testing the application in a setting that closely reflects the circumstances experienced by end users in order to provide reliable acceptance test results. |
| Document issues uncovered during integration testing and assign them for resolution. | The team discovered faults and issues as a result of failed integration tests during the progress review. Documenting these concerns in the project's issue tracker enables efficient monitoring and organizing to guarantee prompt resolution. |
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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? |
| 1. Jubril Olawale Akolade 167529213 | **Reflection, Summary of tasks, summary of decisions, tasks that went well** | **20min** | **Yes** |
| 2.Frank Prerez 141647222 | **Summary of tasks, Summary of meeting, Jira task** | **25min** | **Yes** |
| 3.Tarun Thomas 113605224 | **Tasks selected for next week, Major outcomes** | **25min** | **Yes** |
| 4. Faaz Sherwani 113026223 | **Major outcomes, Summary of decisions made, SCRUM Report tasks selected for next week** | **20min** | **Yes** |
| 5.Rutarj Mrushad Shah 170870216 | **Reflection, Summary of Tasks, Tasks attempted during meeting, Tasks selected for next week** | **20min** | **Yes** |
| 6.Iraklis Tsanachtsidis 122226228 | **Summary of decisions made, summary of meeting** | **20min** | **Yes** |
| 7.Aum Rasikbhai Parsana 112872221 | **Things that went well, Scrum Report tasks Selected for next week** | **25min** | **Yes** |

**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 |
| 1. Jubril Olawale Akolade 167529213 | SCRUM Report, Jira & git, Execute acceptance tests based on customer requirements and provided data, Document test results, including any bugs encountered during testing |
| 2.Frank Prerez 141647222 | Jira & git, SCRUM Report, Prepare the final testing report in a tabular format, list all tests conducted, their results (pass/fail), and any bugs found |
| 3.Tarun Thomas 113605224 | SCRUM Report, Jira & git, Review the function-test matrix to ensure all tests have been executed |
| 4. Faaz Sherwani 113026223 | SCRUM Report, Jira & git, Add the final test findings and results to the testing documentation, Plan a knowledge-sharing workshop to go over best practices and lessons gained |
| 5.Rutarj Mrushad Shah 170870216 | SCRUM Report, Jira & git, testing of the code and documentation, Perform exploratory testing to identify any unexpected problems or edge cases,  Any new test cases and results should be recorded for future use. |
| 6.Iraklis Tsanachtsidis 122226228 | SCRUM Report, Jira & git, Perform performance testing to gauge the system's reaction to stress and load, Analyze the results and offer suggestions for future improvements. |
| 7.Aum Rasikbhai Parsana 112872221 | SCRUM Report, Jira & git, Enhance the existing integration tests to cover additional edge cases and scenarios. |
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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 |
| Enhanced Product Quality | The extensive acceptance testing and bug repair that improved product quality led to a considerable decrease in errors and problems in the delivered software. |
| Improved Bug Detection and debugging | Better bug discovery was achieved through the use of integration tests and exploratory testing, particularly in situations when black box and white box tests might not have been sufficient. |
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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 |
| Clear Objective Setting | The meeting began with a specific goal in mind: to examine the results of the testing conducted for Milestone 6. |
| Communication and Collaboration | The team actively participated in discussions, shared their knowledge and insights, and supported one another |
| Task Allocation | Each member of the team was successfully given a specific task, ensuring that all crucial areas of the testing process were addressed. |
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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. At this point, you are using the GIT hook to automate testing. Have you found that any of the tests failed and prevented you from pushing your code to the repository? If so, how did you handle the situation?  
     
     
   Yes, we ran across a few failed integration tests during the testing phase that prohibited us from uploading code to the repository. However, we dealt with these problems right away. We located the source of the errors, cleaned up the code, and reran the tests until they were successful. We were able to make sure that only solid, tested code entered the repository thanks to the GIT hook.
2. Explain why we are automating the testing process and what the advantages of this automation are.  
     
   The testing procedure could be automated, which had many benefits. We received quicker feedback on code changes, which enabled us to identify and fix problems early in the development process. Automated tests decreased the possibility of human testing failures, increasing the codebase's overall reliability. The smoother continuous integration process allowed us to confidently deploy features more quickly. We were able to manage a high number of test cases thanks to the scalability of automated tests, which supported our efforts to maintain the quality of our code.
3. Did you find the integration and acceptance tests more difficult to write than the black box and white box tests? If so, why were they harder to write? Did you write more white box and black box tests or more integration and acceptance tests?  
     
     
     
     
   Writing integration and acceptance tests was more difficult than writing black box and white box tests. Understanding how various functions worked and preparing appropriate test data demanded significant thought. Replicating real-world user experiences added complexity to acceptance test cases. Despite the obstacles, our team worked together to develop thorough tests that accurately measured system behavior.We did more black box and white box tests because they concentrated on thoroughly examining individual parts. Integration tests were less common since they entailed examining interactions between functions and required more setup time. Our acceptance tests were confined to ensuring that important client requirements were met and that the solution met user expectations.
4. Explain why it is necessary to write integration and acceptance tests given that all of the code has already passed black box and white box tests.

Even though our code had passed black box and white box tests, integration and acceptance tests were required. Integration tests verified that diverse components worked together smoothly, preventing any unexpected difficulties that may arise from their interactions. Acceptance tests were required to ensure that the product met consumer expectations and performed as expected in real-world circumstances. These tests ensured that the product matched the demands of the customers and achieved the anticipated results.