# **Milestone 6 Scrum Report**

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

**GROUP: 6**

**Members Present**:

1. Sahan Gallage
2. Ileperuma Gunarathna
3. Dhanuth Hennedige
4. Sean Li

## Milestone 6 Tasks

This is the final milestone where you will run the acceptance tests and fix any remaining bugs found. In addition, you will produce a testing report which lists all the tests conducted, the results and whether the bugs were fixed, and the final test passed. You will also review the test matrix to ensure every test has been performed and passed. You can change the colour of the test in the matrix to show it was run and passed. At the end, all tests in the matrix should have been passed.

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

* Final testing report listing tests conducted, bugs fixed, and the final tests passed.
* Execute acceptance tests (results in Jira), and debug.
* Updated requirements traceability matrix in the repository, ensuring it shows both passed (green) and failed (red) tests.
* 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** | Complete solution code running and executing successfully | 15% |
| Test cases code (performed, results recorded, issues created) | 10% |
| Updated requirements traceability matrix | 5% |
| Final test report | 30% |
| Debugging (bugs fixed, documented, Jira updated) | 5% |
| Git usage (used properly with good structure) | 5% |
| Jira usage (creates issues, tracks progress) | 15% |
| Scrum report & reflections | 15% |
| **Deadline** | 20% deduction for each day you are late |  |

**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** |
| **Sean** | * **Created and divided tasks on Jira** * **Limiting Factor functional testing code** * **User acceptance test** * **Updated my parts on test matrix** * **Test report** * **Scrum reflections** |  |
| **Sahan** | **• Completed IT01 (Integration - Weight)**  **\* Added IT01 test cases (AllEmpty\_Trucks\_BlueChosen, OverWeight\_ChooseYellow)**  **\* Updated traceability matrix (with help from Dhanuth & Dineth)** |  |
| **Dineth** | **• Completed IT04 (Integration - Shortest Diversion)**  **\* Added IT04 test cases (ShortestRoute\_Blue, DiversionNeeded\_ChooseYellow)**  **\* Assisted in traceability matrix updates**  **\* also created the scrum report** |  |
| **Dhanuth** | **• Completed IT02 (Integration - Volume)**  **\* Added IT02 test cases (VolumeCheck\_ChooseBlue, OverVolume\_ChooseYellow)**  **\* Assisted in traceability matrix updates** |  |
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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 |
| Final Testing Progress | **Reviewed IT01, IT02, IT04 completion and verification of all requirement mappings in the traceability matrix** | **All tests accounted for, traceability matrix updated** |
| Bug Fixing | **Checked acceptance test results and resolved any failing tests No major bugs remain** | **tests pass** |
| Final Deliverables | **Confirmed final test report, traceability matrix, and scrum report completion** | **Ready for submission** |
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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 |
| Assign | Assign IT01 to Sahan, IT02 to Dhanuth, IT04 to Dineth Match members’ prior work and familiarity with test areas Match members’ prior work and familiarity with test areas |
| Complete traceability matrix update collaboratively | Ensure accuracy and coverage of all test cases |
| Focus remaining time on acceptance tests | Final milestone priority is to ensure all tests pass |
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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? |
| Sahan | **Updated traceability matrix with new IT01 tests, coordinated final checks** | **30 min** | **Yes** |
| Dhanuth | **Added IT02 tests to traceability matrix, reviewed R2 mappings** | **25 min** | **Yes** |
| Dineth | **Added IT04 tests to traceability matrix, reviewed R5 mappings** | **25 min** | **Yes** |
| Sean | **Verified acceptance tests in Jira, updated meeting notes** | **30 min** | **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 |
| Sahan | Final review of test matrix and documentation |
| Dhanuth | Ensure acceptance test results are attached in Jira |
| Dineth | Final proofread of test report |
| Sean | Submit all deliverables to repository |
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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 |
| All integration tests completed | **Full coverage of requirements achieved** |
| Traceability matrix updated with new tests | **Clear mapping between requirements and tests** |
| Acceptance tests verified in Jira | **Confidence in product readiness** |
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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 |
| Collaborative traceability update | **Leveraged strengths of multiple members for accuracy** |
| Timely completion of IT01, IT02, IT04 | **Clear assignments reduced confusion** |
| Acceptance testing | **No major bugs found in final phase** |
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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 |
| Initial delay in assigning test ownership | **Assign roles earlier to start testing sooner** |
| Minor confusion on R-mapping in matrix | **Clarify requirements mapping rules earlier in project** |
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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. How did creating the Quality Assurance report help you summarize and communicate the overall testing outcomes? Reflect on how this document supports decision-making at the project closure stage.  
     
   By creating the report we can see the actual quality of our product versus the expected, and use that to make improvements, changes, communications, and reflections as team members to better collaborate, resulting in a better end product. We used the report to see where we are at at the end of the project, and use it to reflect and tweak our abilities going forward. The quality assurance report acts as an official review of our product as it’s about to be delivered. From now on, we should become better experts when it comes to designing, conducting, and evaluating the quality assurance phase of a project.
2. How did updating the traceability matrix ensure that all project requirements were adequately tested? Reflect on the role of the matrix in maintaining accountability and completeness in the testing process.  
     
   The traceability matrix clarifies our testing targets and ensures that our tests covers all aspects of the program, provided that the matrix itself is comprehensive and well made in the context of the project. By writing sufficient tests for each cell in the matrix and passing them, we can ensure that we maintain a high standard of quality when we run it against a battery of critical tests. We can easily see if any criteria are lacking and make tests accordingly in a guided, well-documented manner. As a rule of thumb, the more columns, rows, and checkmarks in a matrix, as long as they are evenly distributed across all areas of the program, the better the testing will be.
3. How did the process of preparing the project closure report help you evaluate the overall success of the project? Reflect on how documenting achievements, challenges, and unresolved issues can guide future projects.  
     
   The closure allows us to reflect on the effective contribution of each member, the value of the project to our education, the quality of the course as a whole and areas to think about and work on going forward. By going through an introductory experience in software testing, where we had to document achievements, challenges, and unresolved issues, we will be better equipped to situate ourselves as professionals in the field, where we may be asked to do the same things. One day, we may look back on our closure activities and reminisce on how much we have grown and improved as professionals. Whatever the future may be, we should have a clearer picture of what can go into software testing.
4. During the project closure process, what lessons did you identify that could improve future software testing efforts? Reflect on how evaluating the testing and development cycle contributes to continuous improvement.  
     
   The main lesson is that we should spend more time learning about the existing program and more training lessons on doing tests, because we felt that sometimes we spent too much time on programming and not enough time on actual testing – this may be just a matter of our individual abilities and the way the course is written. At any rate, anything worth its salt, whether a piece of software or something else, must be rigorously tested against the most demanding of tests and be continuously worked on to achieve the highest possibility of success. By now we have fully recognized the importance of software testing and grasp what it takes to achieve truly successful software testing.