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

**Members Present**:

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| 1. Kaitlyn Cassiela Marino | 4. Grace Gabrielle |
| 2. Bilal Umar | 5. |
| 3. Nolan Grossi | 6. |

## 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** |
| **Kaitlyn** | **MS5 scrum report, half of integration tests in excel, acceptance tests in excel** | **None** |
| **Nolan** | **Updated traceability matrix, half of integration tests in excel, acceptance test cases in excel, updated main.c code implementation** | **None** |
| **Bilal** | **Finished white box test implementation, integration tests implementation** | **None** |
| **Grace** | **Jira updates** | **None** |
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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** | **Acceptance test cases implementation (DONE)** |
| **Reason for delay or block** | **Lack of available members to contribute** |
| **Impact on Project** | **Delayed results for milestone 6** |
| **Solution or work-around** | **We will be completing and gathering results for all acceptance test cases within milestone 6** |
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| **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 |
| Testing report | **We discussed which members will be doing the overall testing report for all tests in the project** | **We decided that Kaitlyn and Bilal will be doing the test report for all tests in the project** |
| Implementation and execution of acceptance tests | **We discussed which members will implement and exceute the acceptance test cases** | **We decided that Bilal will be doing the implementation of acceptance tests** |
| Code debugging | **We discussed which members will debug the entire code to ensure that the tests will have results** | **We dediced that Bilal and Nolan and other members will help with debugging the code if necessary** |
| Updated requirements traceability matrix | **We discussed which member will update the traceability matrix for the acceptance test results** | **We decided that Grace will be updating the traceability matrix** |
| Jira updates | **We discussed which member will update the tasks and all test results in Jira** | **We decided that Grace will be updating the Jira project, with feedback from other members** |
| Scrum report | **We discussed which member will be doing the milestone 6 scrum report** | **We decided that Kaitlyn will be doing the milestone 6 scrum report** |
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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 |
| Testing report | Kaitlyn and Bilal will be doing the overall testing report for all tests in the project |
| Implementation and execution of acceptance tests | Bilal will be doing the implementation and execution of acceptance test cases |
| Code debugging | Bilal, Nolan, and other members will contribute to the debugging of the source code, if necessary |
| Updated requirements traceability matrix | Grace will be updating the requirements traceability matrix, with all test results included |
| Jira updates | Grace will be updating the Jira project, with feedback from other members |
| Scrum report | Kaitlyn will be doing the scrum report for milestone 6 |
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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? |
| Kaitlyn | **Beginning of scrum report, fixed typos in some document files, planning for milestone 6** | **~30 mins** |  |
| Nolan | **Planning for milestone 6** | **~30 mins** |  |
| Bilal | **Planning for milestone 6** | **~30 mins** |  |
| Grace | **Planning for milestone 6** | **~30 mins** |  |
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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 |
| N/A | N/A. Final milestone for this project. |
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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 |
| Finished all test cases with results | **We were able to move on to updating the traceability matrix** |
| Updated requirements traceability matrix | **We were able to see if all test cases are executed and can move on to writing the test report** |
| Finished test report | **We completed the final document for this project** |
| Updated Jira and GitHub and acceptance test documents | **We updated and finished all issues for the project, uploaded all necessary files in Git, and updated the results for the acceptance test excel file** |
| Finished scrum report | **We summarized all the work done in this milestone** |
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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 |
| Finished all test cases with results | **We only needed to implement the written test cases, so it did not take too long to finish** |
| Updated requirements traceability matrix | **We finished all test cases with results** |
| Finished test report | **We finished updating the test results and traceability matrix** |
| Updated Jira and GitHub | **We completed all the required documents** |
| Finished scrum report | **We completed all the work needed for this milestone** |
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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**:

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.  
     
   The Quality Assurance report helped us summarize and reflect on the overall testing outcomes because we were able to briefly describe the process before, during, and after each and every test case. This includes the process of making the black box tests, white box tests, integration tests, and finally the acceptance tests. Looking at the report summary, we were able to successfully pass all black box, white box, and integration test cases, and acceptance test cases. Therefore, for the project closure stage, we were able to finish all the needed test scenarios. The Quality Assurance report helped us in making this conclusion since we were able to look at all the passed and failed tests throughout the 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 helped greatly in determining the coverage of the tests and especially the results of the test because, by highlighting all the conducted tests green or red depending on the test results, we were able to identify which tests have not been executed yet. Since we have listed the requirements beside the traceability matrix, we were able to make sure that all the tests throughout the project covered all the requirements that we have come up with from the start of the project. The matrix ensured that, at the end of every milestone, we were able to track which test cases we have completed and passed for that week and which tests have failed or still need to be executed for the later milestones. This helped us avoid wasting time on checking each and every test to see if we have already covered them or not, and instead helped us to immediately tackle the unexecuted and failed tests in the next milestone. The traceability matrix has helped us focus on what we needed to do next and by the end of milestone 6, we were able to complete and cover all the requirements.
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 project closure report helped in evaluating the overall success of the project because it helped us summarize all test cases and test results throughout the project, as well as how we scheduled our tasks for each milestone. Of course, this summarization for the project closure report was streamlined with the help of other document files such as the individual black box, white box, integration, and acceptance test cases, especially since we already updated their results and we were able to draw data from those concise tables. Another documentation that greatly helped was the requirements traceability matrix, which I elaborated on in the previous question. The Jira project was helpful for tracking when and which member did a certain task at a certain milestone, and the scrum reports provided more knowledge on how we planned and conducted activities for that milestone as well as which tasks were delayed and the reason for their delay. These documenting achievements helped in concisely summarizing the project closure report without any difficutly while simultaneously highlighting which areas we could have improved on, especially in the implementation of acceptance test cases and the debugging of the source code in later milestones.

1. 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.  
     
   During the project closure process, we could have improved on efforts such as the proper scheduling of tasks and clearer goals for implementing the custom functions, both of which have significantly impacted the implementation of the acceptance test cases and the debugging of the source code starting from milestone 5. Given that we were slightly delayed in executing the acceptance test results, this meant that, if the project were to continue, we should take more time to think of a better plan to handle all these delays more swiftly. The evaluation of the testing and development cycle definitely contributes to continuous improvement because these cycles allow us to be dynamic and flexible with the tasks that we can tackle at a certain stage of development. It allowed us to improve on test cases and the custom functions without changing or scrapping entire stages or procedures, which is incredibly effective with projects such as these which require so many results in very little time. Thanks to the project closure summary, we now know what we should improve on for future testing and development projects.