# **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**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_8\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

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| --- |
| Kate De Leon |
| Jarod Jian Kang Hery Chen |
| Ronak Jung Rayamajhi |
| Carson Ji |
| Kemono Onomek |

## 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.

The final test report can be tabular like this:

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| --- | --- | --- | --- |
| Function/acceptance/requirement | Test Run | Bugs Fixed | Passed |
| Distance | TF001 | Did not handle negative coordinates | 🗹 |
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**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 stored in the repository.
* Completed scrum report including reflection questions answered.

**Rubric:**

|  |  |  |
| --- | --- | --- |
| **Individual** | Group participation (includes GitHub commits and Jira usage) | 80% |
| Teamwork | 20% |
| **Group** | Complete solution code running and executing successfully | 15% |
| Test execution (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** |
| Everyone | * Debugging, Test execution and Final Test report | * None |
| Jarod Jian Kang Hery Chen | * Update requirements traceability matrix | * None |
| Ronak Jung Rayamajhi | * Scrum report * Update Jira and GitHub repository | * 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** |  |
| **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 test report | Summarized all the tests we have done | Completion of final report |
| Complete solution code | Discussed, solved and executed the whole solution | Done |
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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 |
| Final test report | Include every test done till now |
| Project Execution | Made sure everything works perfectly from beginning to end |
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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? |
| Everyone | Final test report | 1 hour | Yes |
| Everyone | Test Execution and Debugging | 1 hour | Yes |
| Everyone | 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 |
| Everyone | Check if we can still make any improvements in the 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 |
| Final test report | Completion of the final report. |
| Debugging | Bug free code. |
| Complete execution | Everything worked properly as expected. |
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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 |
| Scrum report | Everyone contributed |
| Final report | Everyone discussed about what should be included. |
| Debugging and Test execution | Everyone discussed about any question regarding the tasks. |
| Meet deadline | Everyone worked sincerely in all milestones resulting in completion of the project in time. |
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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 |
| Diversion bug | Even though our diversion integrated into our program was working it wasn’t printing the points that it was diverting. What we can try to improve next time is passing the source code to all the team members so they can have a full overview of what is causing the problem and then report it to the team leader for reporting the different tasks that can be done to fix the problem. |
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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. Although we wrote a report on the testing that shows which tests were run and passed or failed, we also updated the traceability matrix. What are the advantages of updating the traceability matrix in addition to writing the test report?

Updating the function test matrix with the test report has many benefits for software testing and quality assurance.

The matrix ensures complete testing coverage by documenting all tested functions, preventing any component from being missed. It promotes accountability by linking specific tests to code segments. Regular updates improve test planning, resource allocation, and prioritization of critical tests while highlighting areas with limited coverage for better risk management.

An up-to-date matrix makes regression testing more efficient by identifying necessary retests after software changes. It serves as a shared reference, enhancing collaboration among development, testing, and management teams. Continuous updates help spot trends for process improvement, and in regulated industries, the matrix demonstrates thorough testing practices for compliance and auditing.

Additionally, the matrix guides test automation by identifying functions suitable for automation, increasing efficiency and repeatability. Overall, keeping the function test matrix updated is crucial for managing testing activities and ensuring high software quality.

1. Teamwork on a project like this is vital to its success. How well did your team work together? If you worked well, what contributed to its success? If it did not work well, what contributed to the problems?

We used both GitHub and Jira for effective project management. GitHub offered strong version control, making it easy to manage code changes, collaborate, and track progress. Features like pull requests, branches, and issue tracking helped us assign tasks, resolve conflicts, and keep a detailed project history. Jira, on the other hand, allowed us to plan, track, and prioritize tasks with a clear view of project milestones. Using both tools together, our team worked well together, stayed organized, and successfully managed the project. We also used Discord in times to share files and stuff among the members as everyone was used to it from before. We had regular meetings each week where everyone discussed and gave their words about the milestone which contributed to efficient teamwork in this project.

1. In every milestone you were asked what worked and did not work along the way. Were you able to incorporate what you learned to improve your team’s performance on the next milestone? Did your team learn from their mistakes and improve? If so, why? If not, why?

We've used each milestone as a chance to learn and improve. By analyzing what worked and what didn't, we've refined our approach and applied these insights to future milestones. As a team, we've combined our experiences and used the lessons learned to keep getting better. With open communication and shared accountability, we've tackled challenges and improved our performance. Our commitment to learning from the past has helped us adapt, leading to smoother executions and more successful outcomes. Fortunately, we did not face any major problem that could affect our project’s pacing because everyone in our group always had a clear idea what they were going to work with for the week. Discussion among the team members also helped a lot to clear any issues in every milestone.

1. Did you end up testing the code to the point where you were convinced it worked correctly? Were there any tests that had not pass at the end? If so, what was the impact of this on the project?

We did a lot of testing for the success of this project. Yes, we tested the code thoroughly and were confident that it worked correctly. All tests codes passed successfully. After each milestone was completed, the testing related to the milestone was documented properly and we could look at it anytime which helped us to create more test cases and functions that would meet the business requirements. This positive outcome had a favorable impact on the project, confirming that the code met the requirements and functioned as expected. It allowed us to move forward with the project as planned, without any significant delays or additional fixes needed.