# **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**: \_\_\_\_\_\_\_\_B\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

|  |  |
| --- | --- |
| 1. Isabela Jorge Bulla | 4. Ketia Teta |
| 2. Devarsh Patel | 5. |
| 3. Abdullah Al Mahfuz | 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.

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:**

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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 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** |
| **Ketia Teta** | **Final Report** |  |
| **Isabela Jorge Bulla** | **Scrum report + reflection question 3** |  |
| **Abdullah Al Mahfuz** | **Implementation of acceptance test cases, reflections questions 2 and 4** |  |
| **Devarsh Patel** | **Update traceability matrix and reflection question 1** |  |
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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 |
| Tasks | **Tasks were discussed and assigned to team members** | **Clear understanding of tasks** |
| Final report | **Discussion about final report content and formatting** | **Clear understanding of final report** |
| Reflection questions | **Discussion about reflection questions** | **Agreed in the answers for the reflections** |
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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 |
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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? |
| Isabela Jorge Bulla | **Scrum report** | **15 min** | **YES** |
| ALL | **Discussion about tasks** | **20 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 |
| N/A | N/A |
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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 |
| Clear understanding of the tasks | **Better and more agile execution of tasks** |
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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 |
| Group discussion | **Every group member had a change to expose their ideas** |
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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. 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 traceability matrix with test reports helps to ensure that all requirements have been tested. By this, we can verify that every requirement has corresponding test cases and none of them were missed. The traceability matrix serves a comprehensive document that connects the requirements to their tests. When the requirements change it helps keep track of which tests and parts of the system are impacted. This helps to quickly assess the effects of any changes. It also helps verify that no requirement is left unchecked and that at least one of the tests covers it. Linking requirements to tests helps identifying high risk areas that may require more focus. An updated matrix is a useful tool for future maintenance and regression testing. This all helps to improve communication with stakeholders, making it easier for them to understand the testing process and the current status of requirements fulfillment.

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?  
     
   By all means, the team was great at working together. The solution has 100% effectiveness and achieves all the goals and passes all the tests. The separation of tasks and everyone’s intuitiveness and punctuality allowed us to succeed in this group project. At milestone 1, everyone just picked up whatever they liked. But gradually we got to complete everything. We have Isabela Jorge Bulla as our main program developer. She took the responsibility of developing the main functions that actually achieved the output. She also managed the Jira aboard, as well as completing the scrum report and answering one of the reflection questions for each milestone. Abdullah Al Mahfuz took the leading position and created the Git repository and the jira board and including everyone in it. He took the responsibility of developing the UnitTests for our project. He also took the responsibility of educating everyone else about what needed to be done which included creating and sharing a detailed instruction of how to create the UnitTests and how to set it up. As well as how to create the hooks files. Ketia Teta took the responsibility of creating test documents for each and every functions that the developer created. As well as creating the test plan and the final testing report. Devarsh Patel took the responsibility of creating the traceability matrix that kept the records of business requirements and tests which were done in the UnitTest. He also answered 2 reflection questions for each milestone. All 4 members of the group were very responsive to their tasks, anything asked by the leader was taken care of. And because of that collaboration and filling of any void in knowledge, we were able to success fully execute the project.
2. 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?  
     
   In this project, the team faced challenges with meeting scheduling due to the varying availability of team members. Initially, scheduling meetings early in the week was problematic because we hadn’t yet started our tasks, resulting in a lack of discussion topics. To fix this, we decided to reschedule our meetings to later in the week. This adjustment allowed us to start our tasks and develop relevant questions and topics for discussion. As a result, our meetings became more productive and meaningful, as we were better prepared with specific issues and updates to address. This improvement in the meetings improved the project’s development, as it ensured that our discussions were relevant. By adapting our meeting schedule based on our experience, we improved our team’s performance and collaboration.
3. 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?

Yes, we did end up testing the code to the point where we were convinced that it will pass all other tests and no other testing were necessary. The developer (Isabela) has developed a program that can navigate through the entire 25x25 map all while taking care of the blocked spaces where the vehicles simply can not go, what happens if the truck is at limit (it will choose another truck), what happens if no truck can take it (it will ship tomorrow), it also has contingency for invalid inputs as well, as the trucks can only carry a maximum of 2500kg of weight, a shipment size of 1,3,5 only and a valid route is a combination of numbers and letters. All the tests that checks the validity of the program has passed. The program can successfully do it all. We truly don’t think that there are any more conditions that were not checked and the program had not passed.