# **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**: \_\_\_\_\_\_\_\_\_**D**\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

|  |  |
| --- | --- |
| **1. . Manas Gandotra** | **4. Gurmehak Kaur Uppal** |
| **2. Ajaypartap Singh Maan** | 5. |
| **3. Arshnoor Kaur** | 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** |
| **AJAYPARTAP SINGH MAAN** | **Acceptance testing completed, The test code and test cases** | **NONE** |
| **ARSHNOOR KAUR** | **Overviewed the milestone 5 pdf thoroughly, integration testing deliverables discussed along with the successful working of test cases suites.** | **NONE** |
| **MANAS GANDOTRA** | **Overviewed the milestone 5 pdf thoroughly, Scrum Report discussed along with reflection questions.** | **NONE** |
| **GURMEHAK KAUR UPPAL** | **Overviewed the milestone 5 pdf thoroughly, Jira management discussed along with traceability matrix.** | **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 |
| Scrum report and reflection | **Reflection questions were discussed and updated as per each member’s opinion.** | **Completed Reflection Questions** |
| Update requirements traceability matrix | **Updated the matrix with new requirements and test cases** | **The matrix is up to date and stored in the repository** |
| Acceptance Test Cases for Each business requirement | **Thoroughly discussed the acceptance test case with the help of the PDF given** | **Completed acceptance test cases on time.** |
| Test execution (performed, results recorded, issues created) | **Performed the Acceptance Test Cases and debugged the code if necessary for the correct execution of the code** | **Completed and Debugged acceptance test cases on time.** |
| Acceptance Test Cases Code Updation | **The test code was updated to suit the requirements and for the proper working of the code.** | **Completed and run at the same time.** |
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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 |
| All deliverables should be ready 6 hours prior to the deadline | **The submission of deliverables prior to the deadline ensures there is enough time for error checking and helping each other with remaining tasks.** |
| Any possible delays in submission or inability to join the meeting should be reported in advance | **Effective communication between group members is crucial. Reporting tasks in progress on Jira gives time for other team members to come up with a solution or work together on the problem as soon as possible.** |
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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.

|  |  |  |  |
| --- | --- | --- | --- |
| Member | Task Attempted | Time Spent | Complete? |
| AJAYPARTAP SINGH MAAN | **Overviewed the milestone 6 pdf thoroughly, acceptance testing discussed and discussed the changes needed for the code to work efficiently.** | **30 MIN** | **YES** |
| ARSHNOOR KAUR | **Overviewed the milestone 6 pdf thoroughly, Scrum Report discussed along with reflection questions** | **30 MIN** | **YES** |
| MANAS GANDOTRA | **Overviewed the milestone 6 pdf thoroughly, acceptance testing deliverables discussed** | **30 MIN** | **YES** |
| GURMEHAK KAUR UPPAL | **Overviewed the milestone 6 pdf thoroughly, Jira management discussed along with traceability matrix.** | **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 |
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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 |
| Milestone 6 towards completion | |  | | --- | | **The deliverables for MS6 are on track to be successfully submitted.** |  |  | | --- | |  | |
| Milestone 6 tasks assigned to each member | **Milestone 6 will be completed before the deadline with all deliverables documented and tested.** |
| The project requirements understood in detail | **Each team member is aware of their assigned tasks and the project requirements for smooth execution and timely submission.** |
| Acceptance Testing understood in detail | **Each member reviewed the acceptance test cases lectures along with PDF to understand the project effectively.** |
| Debugging the acceptance test code | **The acceptance test code is thoroughly reviewed and debugged.** |
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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 participated efficiently and answered reflection questions thoroughly.** |
| Jira Task Assignment | **Members chose their roles effectively and collaborated well on task progress.** |
| Acceptance Testing | |  | | --- | | **The test cases were well-documented and implemented with good test data, leading to effective verification of functions.** |  |  | | --- | |  | |
| Traceability Matrix | **The matrix was updated promptly and accurately, reflecting the current requirements and test cases.** |
| Team Collaboration | **Team members worked together cohesively, helping each other complete tasks and address any issues promptly.** |
| Code Debugged | **Acceptance test code debugged properly to work as per the requirements.** |
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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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| Everything went well as far as milestone 6 is concerned. | |
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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?**

**ANS**: Yes, updating the traceability matrix in addition to writing the test report offers significant advantages. The advantages are as follows:

* The traceability matrix links each requirement to its associated test cases, guaranteeing that all requirements are tested thoroughly and leaving no aspect of the project unaddressed.
* By clearly mapping requirements to test cases, the matrix enables efficient assessment of how changes to requirements will impact existing test cases, aiding in effective change management.
* The matrix serves as a critical document for compliance purposes, particularly during audits, by demonstrating adherence to regulatory standards and providing a structured record of testing activities.
* Helps identify areas for improvement in the testing process, leading to more effective testing strategies in future projects.

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?**  
   **ANS**: As far as our Group D is considered, we did not face any issues concerning team communication and management of assigned tasks. Here are the reasons which we think are responsible for the same:

* **Regular Meetings and Conversations**: Consistent communication ensured that everyone stayed aligned with the project goals and addressed issues promptly.
* **Clearly Defined Roles and Responsibilities**: Clear role assignments minimized confusion, fostered accountability, and allowed team members to utilize their strengths effectively.
* **Early Submission of Deliverables**: Submitting all deliverables at least six hours before the deadline provided ample time for error checking and allowed team members to assist each other with any remaining tasks.
* **Effective Communication Through Jira**: Reporting tasks in progress on Jira helped in addressing any potential delays or challenges quickly, allowing the team to collaborate effectively and resolve issues as they arose.
* **Proactive Reporting of Delays**: Any possible delays in submission or inability to join meetings were reported in advance, ensuring that the team could plan accordingly and mitigate potential disruptions.

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?**  
   **ANS:** Yes, we actively reflected on what worked and what didn’t, and incorporated these insights to enhance our performance in subsequent milestones. This proactive approach involved addressing communication issues and refining processes based on feedback. In terms of continuous improvement, our team demonstrated improvement with each milestone by learning from past experiences and applying constructive feedback. This resulted in better performance and more effective project execution. Also, regular evaluation of past performance and seeking feedback enabled us to identify areas needing improvement and implement concrete changes, such as better communication and refined processes. Throughout the milestones, we observed the improvement in team collaboration and team spirit as we moved into the milestones. We made mistakes in terms of debugging and assigning tasks but we improved it over time.
2. **Did you end up testing the code to the point where you were convinced it worked correctly? Were there any tests that had not passed at the end? If so, what was the impact of this on the project?**

**ANS:** Initially, during the testing phase, we encountered several failed tests that exposed issues within the code. These failures prompted us to undertake a comprehensive investigation to identify and resolve the underlying problems. We meticulously debugged the code, making the necessary corrections and adjustments based on our findings. Following these fixes, we re-tested the code thoroughly to ensure that all issues were addressed.

Despite some tests failing initially, our rigorous testing and debugging efforts paid off. We were able to resolve the problems and achieve successful results across all planned tests. This comprehensive approach not only confirmed that the code met the project’s requirements but also validated its functionality and reliability.

The successful completion of all tests instilled confidence in the stability of the software, reduced potential risks, and ensured that the project was delivered on time. By addressing all initial concerns and confirming that the final product functioned as expected, we ensured that the result was robust, dependable, and aligned with the project's objectives.