SFT221 SCRUM Report and Reflections

This report should be completed in the class and submitted at the end of class. Late submissions cannot be accepted without prior approval of the instructor. All students are expected to attend the in-class SCRUM meetings and to participate. Failure to do so will result in greatly reduced grades.

**GROUP**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_6\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

|  |  |
| --- | --- |
| 1. Shaheer | 4. Maharshi |
| 2. Pujan | 5. |
| 3. Jeelkumar | 6. |

Milestone 4 Tasks

**Deliverables Due at end of Lab:**

* Completed SCRUM report and reflections

**Deliverables Due at 23:59 6 Days after Lab:**

* Implemented Functions
* Implemented blackbox tests (store in repo), executed (results in Jira and on corresponding test documents) and debugged,
* whitebox tests written and stored in repository.
* whitebox tests implemented (store in repo), executed (results in Jira and on corresponding test documents) and debugged.
* Updated function-test matrix stored in the repository.
* Completed hook for test automation

**Rubric**

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| --- | --- | --- |
| Individual | Group Participation | 75% |
| Teamwork | 5% |
| SCRUM Report | 10% |
| Automation Hook | 10% |
| Group | Implemented Functions (well-designed, written and documented) | 20% |
| Whitebox tests (well-designed, written and documented) | 20% |
| Test Execution (performed, results recorded, issues created) | 20% |
| Debugging (Bugs fixed, documented, Jira updated) | 5% |
| Git Usage (used properly with good structure) | 5% |
| Jira Usage (creates issues, tracks progress) | 5% |
| Meets Deadlines | 5% |
| SCRUM Report and Reflections | 20% |

**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** |
| Shaheer Ali Khan | Traceability-matrix + Scrum report + Reflection question 1 + Function and test description documents | - |
| Pujan | Blackbox testing | - |
| Maharshi | Function specification and implementation | - |
| Jeel | Fixing returnDistance function. | - |
| Shaheer Ali Khan | Function description documents. | - |
| Jeel | Function specification and implementation | - |
| Maharshi | Function specification and implementation | - |
| Shaheer Ali Khan | Test description documents | - |

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 |
| Assigning the tasks | Shaheer Ali Khan: responsible for scrum report + test automation + white box testing + function implementation | **-** |
|  | Jeel Kumar: responsible for checking whitebox testcases, reflection question 1. | **Work is good and organized with no significant mistakes.** |
|  | Maharshi Patel: responsible for function implementations. | **Fast work. However, there is a mistake hinders the testing process.** |
|  | Pujan Shah: responsible for Whitebox testing. | **Great effort. However, works are unorganized and have many mistakes, leading to delayed completion in MS4.** |
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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 |
| Assigning work | For efficient task distribution and time management. |
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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? |
| Shaheer Ali Khan | Discussion + assigning work | 30 mins | **yes** |
| Maharshi Patel | work assigned | 30 mins | **yes** |
| Jeel Jumar | work assigned | 30 mins | **yes** |
| Pujan Shah | work assigned | 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 |
| Project Manager | Will designate with the task in the next week. |
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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 |
| Work assigned | Group members can prepare according to their roles. |
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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 |
| Good collaboration. | Works completed punctually. |
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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 |
| Delayed response | **-** |
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**Reflections**:

**1. After you run your blackbox and whitebox tests you are asked to record the results in both the original test document as well as in Jira. Explain why it is a good idea to record the results in both places.**

Recording the results in both the original test document and Jira offers several advantages. First, it enhances traceability by linking test cases to their respective results, simplifying the monitoring of each test case's progress and making it easier to spot any problems that might arise during the testing process. Second, Jira, being an issue tracking and project management software, allows seamless integration with the broader development process. By recording test results in Jira, the team gains a comprehensive view of the project's state, including testing progress, defect monitoring, and resolution. Finally, maintaining thorough test documentation is often a legal requirement in various industries. By documenting outcomes in both places, the project ensures it has the necessary evidence for compliance and potential auditing needs.

**2. Why did we wait until the fourth milestone to write the whitebox tests?**

We decided to focus on blackbox testing before delving into whitebox testing to ensure that the functions deliver the desired results and meet the required specifications from an external perspective. Blackbox testing verifies the functionality without considering internal implementation details, allowing us to validate the correctness and effectiveness of the functions independently of their code structure. This approach helps us ensure that the functions work as intended before we delve into internal code details during whitebox testing. By identifying potential issues and refining the code after blackbox testing, we can approach whitebox testing with a clearer understanding of the overall functionality, making it more efficient and effective.

**3. For a given function, did you produce more blackbox or whitebox tests? Explain why your answer (more blackbox or more whitebox) happens for most functions.**

For most functions, we produced more whitebox tests than blackbox tests. The reason behind this is that whitebox testing allows us to directly examine the internal logic and code paths of the function. By understanding the internal structure, we can design test cases that specifically target different branches and conditions within the code, ensuring comprehensive coverage and better handling of edge cases and potential issues. Whitebox testing provides us with greater insights into the functioning of the code, allowing us to thoroughly test all possible scenarios and validate the correctness of the implementation.

**4. Explain the purpose of the automation hook for GIT and explain how it can improve the quality of the software in the project.**

The automation hook for Git is a script that automatically executes on specific version control events, and the "pre-commit" hook is one of the most commonly used. Its purpose is to enable developers to customize and automate various processes within the development workflow. By using automation hooks, the project can significantly improve the quality of its software. Firstly, automation hooks allow us to discover problems earlier by triggering automated testing and quality checks before a commit is made. This helps identify issues during the development process, preventing faulty code from entering the repository and reducing the chances of introducing bugs. Secondly, automation hooks enforce coding standards and best practices, ensuring code uniformity across the project. Consistent and maintainable code enhances collaboration among team members and simplifies future maintenance. Additionally, automation hooks optimize workflows by automating repetitive tasks such as testing and code review. This streamlines the development process, boosts productivity, and reduces the risk of human errors. Overall, automation hooks play a crucial role in ensuring a smooth and efficient development process while maintaining high code quality throughout the project.