# **1Milestone 4 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**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Members Present**:

|  |  |
| --- | --- |
| 1.Ana Masoumi | 4. Hamzeh Khaled Nayef Muhiar |
| 2.Mihyeon Park | 5. Veronika Edith Turpo Meneses |
| 3.Manraj singh | 6. Yashleen Brar |

## Milestone 4 Tasks

* Finish implementing/coding the functions.
* Finish implementing/coding blackbox tests. Store in repo, executed, results in Jira (and on corresponding test documents, and debugged.
* A set of whitebox tests as test documents (in an Excel file) with test data for the functions you created. At least 4 sets of test data are required for each function. You must have test cases for at least 6 functions (including all your custom function). Stored in the repository.
* Whitebox tests implemented (in the C++ testing project), stored in repository, executed, results in Jira and on corresponding test documents, and debugged (at least 1 SET is required).
* Updated requirements traceability matrix stored in the repository.
* Completed hook file (for EACH team member) for test automation 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** | Implemented functions and main (well-designed, and documented) | 10% |
| Finish coding blackbox code (well-designed, written, and documented) | 5% |
| Whitebox test case document (well written, complete, good test data) | 10% |
| Whitebox test code (well designed and documented) | 10% |
| Updated requirements traceability matrix | 10% |
| Test execution (performed, results recorded, issues created) | 10% |
| Debugging (bugs fixed, documented, Jira updated) | 5% |
| Hook files | 10% |
| Git usage (used properly with good structure) | 5% |
| Jira usage (creates issues, tracks progress) | 15% |
| Scrum report & reflections | 10% |
| **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** |
| Mihyeon Park | Worked on Whitebox unit testing log file for checkDestination(), added code for the ValidTruckRoute() , contributed to traceability matrix and TestCaesTemplate.  Completed hook file implementation |  |
| Ana masoumi | Worked on secrum report (Q1,Q2&Q3), finished the code for BestRoute function and added the results to traceability matrix and TestCasesTemplate. |  |
| Manraj Singh | Wrote code for checkBuildings() function, and worked on Whitebox traceability matrix, and completed unit tests and completed hook file implimendation. |  |
| Yashleen Brar |  |  |
| Hamzeh Muhair |  |  |
| Veronika Turpo |  |  |
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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** | **N/A** |
| **Reason for delay or block** | **N/A** |
| **Impact on Project** | **N/A** |
| **Solution or work-around** | **N/A** |
|  |  |
| **Delayed or Blocked Task** | **N/A** |
| **Reason for delay or block** | **N/A** |
| **Impact on Project** | **N/A** |
| **Solution or work-around** | **N/A** |

**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 |
| Stand up meeting each persons responsibility for the ms4 | We Talked about what role each person should take and what tasks should be done in this workshop. | Clarification about tasks. |
| WhiteBox test cases | Each person should create 2 white box test cases for their function | Created whitebox test cases |
| Traceability matrix and testcases Template | Added the results of the blackbox and whitebox test cases into both of these files | Results added to both files. |
| Function coding | Each person should add their code for the function they have chosen to the source code file | Codes where created and added to the project source code |
| Automated Whitebox test | Creating one set of whitebox testing for the unit test | Unit test created and added |
| Create Hook file | Each person creating and added the hook file to their project folder | Hook file created and added |
| Debbuging | Find a bug in one function and debug it | Bug found and resolved |

**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 |
| Prioritization of tasks | Equal amount of code assigned to each person . |
| Coding | Functions got distributed in 6 so each member has a function to work on and do the coding for. |
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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 | Jira contribution. | **30min** | **yes** |
| Everyone | Meeting attendance. | **15 min** | **Yes** |
| Everyone | Created Jira Tickets. | **30 min** | **Yes** |
| Everyone | Filled Scrum report | **1 hour** | **Yes** |
| Everyone | Discussion about hook files implementation. | **1 hour** | **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 | Jira Usage |
| Everyone | Scrum report, Reflection |
| Everyone | Attending at group meeting |
| Everyone | Be ready to present/talk about their part at next session. |
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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 |
| Functions Coding | We did write the code for each function and tested about test data(Blackbox and Whitebox) with the created code, and added it to the project. |
| Jira Usage | Created a new part for bug reporting. |
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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 |
| Jira | Everyone contributed |
| Git | More git contribution, using file push and git clone. |
| ScrumReport | Everyone contributed. |
| Documentation | Completed. |
| Meeting | Everyone attended. |
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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 |
| N/A |  |
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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. Why did we wait until the fourth milestone to write the whitebox tests?  
     
   we waited until ms4 to be doing the whitebox testing because to be able to do the white box testing we should have the code so we can examine it and see the requirements and the limits of the functions so we could make a more clear test data. For example in blackbox testing we didn’t know limits for shipment which is weight 2500 kg and volume 100cbm , therefore we could’ve declared a shipment which had an invalid weight or volume and the test would’ve failed but with having the code we know that we cannot exceed 2500 kg for the weight of the shipment and 100cbm for the volume of it, and test cases created with the code being obvious and accessible is a better test data .
2. How does the Agile methodology ensure that all team members are consistently engaged throughout the software development process, avoiding downtime due to dependencies on others? Provide an example to illustrate your point.  
     
   Task Updates on Jira: The person in charge of unit testing updates the Jira ticket with comments about the completed test unit document. The person in charge of traceability matrix receives an email notification about the update and sees the detailed comments and any additional notes. This immediate communication prevents delays.

It keeps connecting teammates together by informing them regarding the tasks have been done through emails containing what changes have been done to jira and what comments each person has made in the jira tickets so they wont be left behind .

Clear Task Assignment: Each team member has specific tasks assigned to them with clear descriptions and deadlines. For example, the creating text data task is assigned to person A with a note to collaborate with person B by the end of the week. This ensures that each team member knows their role and responsibilities, keeping them engaged and avoiding idle time.

by creating the tickets and assigning them to team members each person knows what to do and in description we can write the extra notes we can also make a deadline so they know when they have to deliver it.

1. What is a shell script and how are we going to utilize a hook script in this project?  
     
   A shell script is a text file containing a sequence of commands from a Unix-based operating system command line interpreter, also called a shell. These scripts are used to automate common tasks, batch process, control system operations, and create complex workflows by combining multiple commands Shell scripts can be written for different shells, the most common and Bourne Again Shell (bash).

By using a hook file which is a shell script and runs each time we want to do specific tasks like committing to GitHub it goes and automatically tests everything (c source code) and make sures that the code doesn’t have any bug to crash the program and it runs completely fine , there for it lets us to commit, if the source code contains any bugs that leads to stop the program from running it will abort committing and the user should fix the bugs to be able to commit.