# **Milestone 2 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. Mahmadsahil Shah | 4. Pouya Rad |
| 2. Dil Humyra Sultana Borna | 5. Ryaan Farrukh |
| 3. Ying Wang | 6. |

## Milestone 2 Tasks

Some of the software for the project has already been written for you and is available on Blackboard. You must use this in your project and every team should add it to the source code for their repository. Anything in the main function is simply for demonstration purposes and can be replaced. The software you are being given has not been tested and you will need to test it.

You need to study the problem and the code provided for you and then:

* Add any new data structures you will require This will require a thorough analysis of the problem and the existing software. This should be done by creating a new header file in the directory where the rest of the source code has been placed. You do not want to go back and modify it later if you can avoid it as it will slow the project.
* Create a test plan for the project by replacing the text in the supplied test plan template with your test plan.

**Deliverables due 4 days after your lab day:**

* An analysis of the problem (no written artifacts produced).
* A series of data structures created as header files and **stored in the repository**.
* A test plan 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** | Data structures (complete, correct, and well-designed, updated in the project, and added to the repository) | 25% |
| Test plan (complete, well-written) | 25% |
| Git usage (used properly with good structure) | 10% |
| Jira usage (creates issues, tracks progress) | 20% |
| Scrum report & reflections | 20% |
| **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 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** |
| Mahmadsahil Shah | **Scrum and reflection** | **N/A** |
| Dil Humyra Sultana Borna | **Add functions** | **N/A** |
| Ryaan Farrukh | **Add functions** | **N/A** |
| Ying Wang | **Test plan** | **N/A** |
| Pouya Rad | **Test plan** | **N/A** |
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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 discussed in the meeting and the outcomes of the discussions.

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| --- | --- | --- |
| Topic | Discussion Summary | Outcome |
| Create New functions | **Create Functions for the project** | **Created new Functions** |
| Create Testing Plan | **Create all The testing plan and reviewing errors** | **Created testing plan** |
| Scrum Report and Reflections | **Analyze the issue and design the software before initiating the project.** | **Learned the idea if software design** |
| Planning tests, updating GitHub, and managing Jira tasks | **Updating Git repositories and revising the Jira task timeline.** | **Completed** |
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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 |
| Divide all the tasks into smaller parts. | **Each team member is allocated an equal share of tasks.** |
| Scrum | **Enhanced testing strategies** |
| Testing Plan | **Discussion on analyzing issues within the program** |
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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 cannot be completed, the student should indicate why this was not possible.

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| --- | --- | --- | --- |
| Member | Task Attempted | Time Spent | Complete? |
| Mahmadsahil Shah | **Scrum and reflection** | **1 hr** | **Yes** |
| Dil Humyra Sultana Borna | **Creating functions** | **3 hr** | **Yes** |
| Ryaan Farrukh | **Creating functions** | **3 hr** | **Yes** |
| Ying Wang | **Creating Test plan** | **2 hr** | **Yes** |
| Pouya Rad | **Creating Test plan** | **2 hr** | **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 |
| Test Planning | **The testing criteria have been established.** |
| Functions | **Created New functions** |
| Tracking our Task | **Updating on GitHub and Jira** |
| Scrum Report | **Completed Reflections** |
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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 |
| Everyone understood their task | **Everyone attended the meeting** |
| Everyone got assigned their tasks | **The team leader divided the tasks for each member** |
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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 | **N/A** |
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**Reflection Questions:**

Answer the following questions using your own words. Make sure that each answer comprises a minimum of 100 words.

1. In this milestone you were asked to design the data structure for the project. Print the data structure below then explain each item.  
     
   struct Truck Data Structure:

struct Truck {

int id; // Identifier

int currentWeight; // Current weight

int maxWeight; // Maximum weight

int currentVolume; // Current volume

int maxVolume; // Maximum volume

struct Route currentRoute; // Current route

};

Members in struct Truck:

1. int id;

Identifier for each truck

2. int currentWeight;

Current weight for specified truck

int maxWeight;

Maximum weight capacity

4. int currentVolume;

Current volume for specified truck

5. int maxVolume;

Maximum volume capacity

6. struct Route currentRoute;

Current route for specified truck

Functions:

1. bool isValidDestination(const char\* destination);

Checks to see if the destination entered by the user is valid and exists.

2. bool isValidSize(int size);

Checks to see if the box size entered by the user is firstly valid, and then checks to see if there is enough space in the truck for the box to fit

3. bool isValidWeight(int weight);

Checks to see if the weight of the box entered by the user will not exceed the maximum weight capacity of the truck

4. const char\* determineRoute(int weight, int size, const char\* destination);

Checks to see which route is the best based on the destination, the weight and the size.

2. Describe the process you used to analyze and understand the existing software code.  
  
We reviewed the header and configuration files to better understand the implementation and find any potential spots for improvement or concerns. We gathered software-related support. Analyzing reported difficulties gave useful information about the software's strengths, limitations, and places for improvement. We maintained conversations with the group to clear up any misunderstandings and obtain more details.

3. What aspects did you consider when creating the test plan? What were the milestones you identified in the test plan?  
  
Test plans allow for identifying and resolving all functional requirements, features, and scenarios that must be tested. This ensures thorough testing and reduces the possibility of missing essential parts. Provides a clear and organized framework for testing. It enables testers to take a systematic approach to testing and verify that all relevant aspects are covered. The 2 milestones are identified in the test plan how the truck will follow the map and max weight and max box of a truck.