# **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**: B

**Members Present**:

|  |  |
| --- | --- |
| 1. Aung Moe Thwe | 4. Thiri Aung |
| 2.Jhonatan Lopez Olguin | 5. |
| 3.Kashish Verma | 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** |
| Aung Moe Thwe | Update GIT repository with initial files | N/A |
| Kashish Verma | Create Initial project structure in GIT | N/A |
| Jhonatan Lopez Olguin | Update Jira with task breakdown | N/A |
| Thiri Aung | Continue with project research and documentation | N/A |
|  |  | N/A |
|  |  | N/A |
|  |  | N/A |
|  |  | N/A |

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 |
| Dividing tasks | Breaking down the project into small parts and assigning each member | Project Milestone-2 was divided into 3 section with its corresponding parts |
| Project Analysis | Reviewing the project document and requirements | understanding of the project’s goals, objectives |
| Due Dates | Reviewing due dates for upcoming projects and going through all deliverable dates. | Ensuring the proyect is delivered before the deadline |
| Requirement Gathering | documented detailed requirements | ensuring a solid project |
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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 |
| Dividing tasks equally | to ensure all members are equally involved and workload is distributed |
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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? |
| ALL | Scrum report | 30 mins | Yes |
| ALL | Reflection | 30 min | Yes |
| ALL | Source Code | 40 mins | Yes |
| ALL | Test Plan | 45 mins | Yes |

**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 |
| Aung MoeThwe | Jira Control |
| ALL | Meeting on 13th July, Saturday 10am to 1pm |
| ALL | Scrum report and each part of the reflection |
| ALL | Test the black box cases and create functions |
| ALL | Continue with the project research and documentation |
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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 |
| brainstorming | generating and discussing ideas, solutions, and strategies for project development |
| Task division | Ensures balanced workload and timely completion |
| Re-check-ins scheduled | Facilitates continuous progress and early issue resolution |
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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 |
| Analysis of Milestone 2 | Creating strategies for project development, problem-solving, and feature implementation |
| Collaborative Environment | Members actively listened and considered different opinions |
| Task Breakdown | Members were clear about their responsibilities |
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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 | Everything went smoothly in this meeting |
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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 Shipment{

double vol;

double weight;

struct Point target;

}

In this following struct, double vol is to represent the volume of the shipment whereas double weight is to represents the weight of the shipment. Struct Point target is to represent the target location of the shipment.

struct Truck{

int id;

double vol;

double weight;

struct Route truckRoute;

struct Point position;

}

In this following struct, int id represents the unique identification. And double vol is to represent the volume capacity of the truck whereas double weight is to represent the weight of the truck. And the struct Route truckRoute is to represent the route of the truck for deliveries. Struct Point position is to represent the current position of the truck.

1. Describe the process you used to analyze and understand the existing software code.

To analyze and understand the software code, we first identified the three main files: main.c, mapping.c, and mapping.h. We analyzed the key functions that the main function initializes a map using populateMap, adds routes by using addRoute, and prints the map via printMap. We went on to key functions in mapping.c, like populateMap for map initialization, route functions such as getBlueRoute, and utility functions for the map dimensions, adding points, and calculating distances. We also looked closer at the pathfinding logic in shortest path and getPossibleMoves, and at point comparison functions like eqPt and getClosestPoint. This way, we were able to comprehend the structure and functionality of this code.

1. What aspects did you consider when creating the test plan? What were the milestones you identified in the test plan?  
     
     
   When creating the test plan, we considered multiple crucial factors such as coverage and efficiency. First of all, we try to identify the requirements and functionalities that the program should have as well as the test cases to test each part of the code so we can ensure that the system operates properly in both expected and unexpected conditions. Moreover, we also check their integration points to make sure that all of the parts work well together. Furthermore, we used the load testing method to test our created test seniors to ensure that the program meets the required software demands. And also specific deadlines were also added to the testing. We also created a schedule the time for periodic review and upgrades to prepare for changes in the project’s requirements. These are the aspects considerations in order to get a clear and readable test plan.