Robotic Sensorimotor System Testing Platform (RSSTP)

Final Report

Version 0.1

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# Executive abstract

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# Introduction

# Customer

# Acronyms and Definitions

|  |  |
| --- | --- |
| RSSTP | Robotic Sensorimotor Software Testing Platform |
| TDD | Test-Driven Development |
|  |  |
|  |  |
|  |  |

# References

**There are no sources in the current document.**

# Project description

# Realised requirements

## Internal logic

## External logic

# Used software development method

Scrum/Agile

Sprint = Milestone

Test-driven development (TDD)

# Testing

PyTest for unit tests

Run full algorithm scenarios for acceptance testing

# Project timeline

**TODO: Split into phases?**

The timeline of the RSSTP project starts on the 21st of September. On this date, the first meeting with the clients was had. The timeline ends on the 13th of December, when the Final Presentation was had. The project was conducted in 2022.

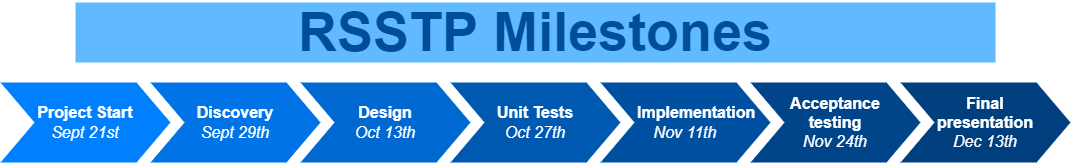


Figure RSSTP Milestones

The Milestones for this project can be seen in Figure 1. Below, an explanation for each one will be given.

## Project start

**Duration:** 2022/09/07 – 2022/09/21

**Description:** Managing to find a project and getting approval from the teacher/TAs was the first milestone for the project. It was completed after the first client meeting.

## Discovery

**Duration:** 2022/09/21 – 2022/09/29

**Description:** The second milestone of “Discovery” was completed once the project goal was better understood. This was done by setting up multiple meetings with the clients and discussing the what the project entailed.

## Design

**Duration:** 2022/09/29 – 2022/10/13

**Description:** Completing the “Design” milestone was achieved when the team designed the software platform with the help of block and class diagrams.

## Unit Tests

**Duration:** 2022/10/13 – 2022/10/27

**Description:** As the project would be implemented following the TDD method, the unit tests for each software component had to be created. Once this was done, the “Unit Tests” milestone was reached.

## Implementation

**Duration:** 2022/10/27 – 2022/11/11

**Description:** Based on the design and unit tests, the software components of the RSTTP were implemented. The “Implementation” milestone was completed once this was done.

## Acceptance testing

**Duration:** 2022/11/11 – 2022/11/24

**Description:** To ensure that the testing platform works as expected, the entire software suite was tested by using it as intended and running different example algorithm through its pipeline. Completion of this milestone meant that the software worked as intended in the requirements.

## Final presentation

**Duration:** 2022/11/24 – 2022/12/13

**Description:** The final step of the project was to create a final presentation on the project. During this milestone any leftover tasks/bugs were also resolved.

# Feedback to the course organizers

# Appendix

## Software structure

Text, letter

Description automatically generated

Text

Description automatically generated

Graphical user interface, text, application

Description automatically generated