# SEmester

# Statement of Work

SEmester

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# Document History

| Document Name | Version | Date | Reviewer | Responsible |
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| SEMester_SoW_0.1.docx | 0.1 | 2/12/2024 | | Chatpisut Chaiuan, Peerachada Limtrakul, Salinporn Rattanaprapaporn, and Thanida Paige Pholsukcharoen |
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# Table of Content

# 1. Document Objectives

The State of Work (SoW) document serves to outline the Project Scope and centralizes expected deliverables, rough estimates of the project schedule, and necessary details that require understanding before the project initiation.

# 2. Project Description

SEmester is a web application for users to manage coursework, enhancing the learning experience for both students and teachers. Users of this application can be separated into 2 types by their responsibility; Teacher and Student.

Students can benefit from various features within the system that are designed to enhance their academic experience. They can easily submit assignments through a user-friendly interface, which simplifies the process. The platform also includes a grade viewer that uses an intuitive graph to help students visualize their academic progress and understand performance trends. Additionally, students can easily monitor their attendance records and keep track of their attendance history.

Teachers have several tools at their disposal to enhance their classroom management. They can streamline the assignment process, simplifying the task of assigning and collecting work. An announcement hub facilitates seamless communication with the entire class, ensuring everyone is informed. Additionally, teachers can effortlessly track and manage student attendance. With features like a grade calculator and class overview, they can evaluate student performance and gain valuable insights into class progress.

## 2.1. Scope

1. **Course Management:** The application will allow teachers to create specific courses for the subjects they teach, each with its own unique course code. This course code will enable students to join the respective course.
2. **Announcement Management:** The application enables communication between teachers and students. Teachers can create announcements to inform students about important news and provide class materials. Students can view the announcements and access the materials for their courses.
3. **Assignment Management:** The application will enable teachers to assign tasks to students enrolled in their courses. Teachers will be able to check the submission status of students and view their submitted work. For assignments that involve coding, teachers can preview the submissions directly within the application without needing to download the files. Students will have access to the details of their assignments and can submit their work through the platform.
4. **Grade Management:** The application will allow teachers to post grades for each assignment and exam, as well as view the overall grade distribution for the

courses they teach. Students will be able to see the scores they received for each assignment and exam, along with their total grade for each course.

5. **Attendance Management:** The application enables teachers to check students' attendance for any class date. Teachers can add new dates to the application and mark each student's attendance status. Moreover, they can view the attendance records of all students. Students, in turn, can access their overall attendance record for each course.

6. **Security:** The application will be designed with security in mind, using best practices for authentication, authorization, and data encryption.

## 2.2. Objectives

1. Develop a web-based application that streamlines course management by efficiently handling assignments, grades, attendance, and communication between teachers and students.
2. Enable teachers to communicate news and provide class materials to their students instantly.
3. Enable students to track course updates and access class materials without delay.
4. Teachers should be able to assign assignments and manage submissions.
5. Students can track their assignments and submissions effectively.
6. Enhance the grading process for courses and assignments to improve communication and efficiency between teachers and students.
7. The application enables teachers and students to effectively track student attendance.
8. Design the application with security in mind, using best practices for authentication, authorization, and data encryption.

## 2.3. Project Progress Report

The Project Manager (PM) shall formally provide a Progress Report to the client, commencing from the initiation of the project, also known as Project Kick Off, and continuing at regular intervals of one month. This reporting requirement will be triggered following the approval of the Project Proposal.

# 3. Expected Deliverables

| No. | Artefacts | Media | No. Of copies | Date |
|---|---|---|---|---|
| 1 | Project Proposal | Artefacts: Hard Copy | 2 | 26/11/2024 |
| 2 | First Milestone:<br>- SEmester_SoW_1.0<br>- SEmester_SRS_1.0<br>- SEmester_SDD_1.0<br>- SEmester_PMP_1.0<br>- SEmester_TR_1.0<br>- SEmester_VerR_1.0<br>- SEmester_ValR_1.0 | Artefacts: Hard Copy | 2 | 5/1/2025 |
| 3 | Second Milestone<br>- SEmester_SDD_2.0<br>- SEmester_PMP_2.0<br>- SEmester_TR_2.0<br>- Software Version 1.0 | Artefacts: Hard Copy<br><br>Software: Dedicated Repository | 2 | 25/2/2025 |
| 4 | Third Milestone<br>- SEmester_SDD_3.0<br>- SEmester_PMP_3.0<br>- SEmester_TR_3.0<br>- Software Version 2.0 | Artefacts: Hard Copy<br><br>Software: Dedicated Repository | 2 | 2/4/2025 |

**Note:**

SoW = Statement of Work

SRS = Software Requirement Specification

SDD = Software Design Document

PMP = Project Management Plan

VerR = Verification Result

ValR = Validation Result

TR = Traceability Record