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| Software Development Project |
| Course System App |
| Software Design Document |



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# Introduction

This is a course management system used by teachers and students to track student learning progress. Teacher can create course X, add students there, define course schedule and tracking learning progress. Student can login, see his/her ongoing courses and mark his learning progress with a traffic light system.

# User Interface

Home page:

* A register button and a login button on the top right corner of the page. Both will pop up a form for inputting.
* A text block in the middle of the page to introduce this tool.

Teacher’s page:

* Teacher’s name and photo on the top right corner of the page. The name is a button which will go to a new page of teacher’s information, and teacher can edit his/her information there.
* A message icon beside the name showing the number of new messages or 0, this message is sent automatically by this tool when a student marks a progress on the schedule.
* A button “create” to create course, and pop up a form to input the course information, including course ID, name, content, credits and learning schedule (lecture and exercise and exam).
* 2 button under the course, 1 is “track” which will go to a new page showing a summary of a course situation and the learning progress of each student, and the other is used to add student to this course.

Student’s page:

* Student’s name and photo on the top right corner of the page. The name is a button which will go to a new page of student’s information, and student can edit his/her information there.
* A list of ongoing courses and the brief information beside the course photo.
* When click the course photo it will go to a new page where he/she can see all the information of the course and also the schedule of the course, he/she can mark on the schedule bar to confirm the learning progress.

**The first version of UI design is in the attachment as a pdf file.**

# Database

Diagram

Description automatically generated

# Development plans

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| --- | --- | --- | --- | --- |
| Date | Hours | Phase | Tasks | tools/programming languages |
| 16/05-20/05 | 27 | Plan | Requirement Analysis | Excel |
| System Design | Word |
| 23/05-27/05 | 27 | Execution | UI designment | Figma/HTML/CSS |
| 30/05-03/06 | 27 | JS event (object-oriented) | JS |
| 06/06-10/06 | 27 | Server and API , Database | JS, Restful-API, Postgres |
| 13/06-17/06 | 27 | Launching | publish and test and modify | Heroku |
| 20/06 | 6 |  | closing report | Word |