Final Project: เสก AI ใน 2 Week

- Develop and deploy a “Single-page Web Application” (https://en.wikipedia.org/wiki/Single-page_application) which integrates with a large language model (LLM).
- Write a report documenting the development.
- The application presentation and Q&A will take place on September 17, 2025.

Student groups

- Each group is made with 5-6 students
- Team member preference: If you want to be in the same group as a specific classmate, the two of you can pair up and let us know. It is also OK to not have this preference.
- The course staff will randomly form all the groups and their members. (by also taking into account the team member preferences mentioned above.)

Basic requirement

- The web application is a Single-page Web Application.
- The web application uses LLM API in one or more features.
- Students need to use AI in the process of coding.
- The web application must contain all CRUD(CREATE, READ, UPDATE, DELETE) methods.
- The front-end of the web application must NOT use any libraries/frameworks/plugins other than what was used in Activity 4, 5, 7-10. Standard Web (JavaScript) APIs (https://developer.mozilla.org/en-US/docs/Web/API) that can be used in most modern web browsers without loading additional libraries/frameworks can be used.
- The back-end of the web application does NOT use any libraries/frameworks/plugins other than what was used in Activity 4, 5, 7-10, However, you can choose any database you like apart from the activities.
- All members contribute to the development and the contribution of each member is according to a “plan” agreed among the members of the group.
- The web application displays and interacts with the user nicely on different screen sizes and orientations (Responsive).

Challenging requirement

- The web application should be deployed on EC2.
    - The web application should be accessible during the presentation and Q&A session on September 17th

Evaluation

- The score from the final project contributes to 10 percentage of the course grading
- The final project score is divided into
    - The web application.
    - The presentation video.
    - Q&A on September 17th.
    - The written report.
    - The planning and execution of work contributed by grop members.

Submissions & Deadlines

- Each group must submit the following items in myCourseVille.
    - The 3 - 4 minutes video presentation on Semptember 16th 23:59
        - Explain the motivation, problem, and importance of your project.
        - Describe functionality of your application.
        - The technical tools used, such as the LLM model.
        - **Note:** It's not necessary for all team members to be featured in the video.
    - A PDF report September 19th 23:59 consisted of:
        - The project's GitHub repository link.
        - The motivation, problem, and importance that led to the creation of this project.
        - Briefly describes how to use the web application.
        - An explanation of how the project fulfills all of the basic and challenge requirements.
        - A detail of how LLM API is used in the web application.
        - A detail of how AI is used in the process of coding.
        - The planning and executing of work contributed by group members.
- You'll need to provide an easy way to access your web application, such as a QR code, during your presentation (if deployed).
- The presentation format will be announced later.

Evaluation Rubrics

#	Item	%	Score 5–4	Score 3–2	Score 1–0
1	Ability to deliver the basic requirements relating to software development.	40	The web application works and meets all basic requirements relating to software development.	The web application works and meets some of the basic requirements relating to software development.	The web application does not work.
2	Ability to complete the challenge requirements.	20	The web application meets all the challenge requirements.	The web application meets some of the challenges.	The web application does not qualify for the challenging requirements.
3	Project Presentation.	15	The overall presentation video is on-time, smooth, easy to understand, and interesting. A demo of the actual web application is presented.	The presentation video is on-time. A demo of the actual web application is presented.	The presentation video is overall low quality.
4	The written report.	15	The PDF report, including all required details (GitHub link, project background, usage, requirements fulfillment, LLM/AI usage, and group contributions), is submitted on or before the deadline.	The PDF report is submitted on time, but some required details are missing, incomplete, or of low quality, making a full assessment difficult.	The PDF report is submitted after the deadline or is missing most of the required details, making it impossible to evaluate.
5	Ability to plan and execute the project as a team.	5	There is enough evidence and artifactsin the written report showing both “how work allocation to each member was planned” and “how the team tracked and assessed the progress of work assigned to each member ”.	There is some evidence showing how the work allocation to each member was planned.	There is no evidence showing how the work allocation to each member was planned.
6	Fulfilling the task of assessing other groups’ web applications and teammates as assigned.	5	All assigned tasks are fulfilled in time.	Some assigned assessment tasks are fulfilled in time.	Tasks were not fulfilled.

Outstanding Achiever

This part is not related to the Final Project score. Instead, it will be awarded based on the popular vote on Project Presentation Day, Recipients will earn a special badge in MyCourseView. (To be eligible for the Outstanding Achiever award, projects must first satisfy all of the Basic and Challenging Requirements.)