

## **Project Requirement**

### **Mobile Application Design and Development**

1. Design and develop an application that can run on an IOS or Android Phone (Simulator)
2. The Application must have both customer and provider ends, e.g., Pizza Purchases
3. (20 pts) The Application must be able to simulate payment services
4. (20 pts) The Application must have a database to store and retrieve data
5. (20 pts) The Application must connect to an AI agent (assistant) to answer questions
- 6. Team can use AI to help the coding and build the application**
7. Each team has no more than 3 members, each team member needs to code.
8. Both live demos and a final report are required.
9. (20 pts) During the live demos, each member shows their work and run the programs.
10. (20 pts) The final report is a zipped file, including the following files
  - a. All source code files with detailed comments
  - b. A document to introduce how to run the programs, to explain the design logic
  - c. Clearly state which team member did what job
  - d. The whole team only needs to make one submission for the final report**

Project proposal deadline:

9/26/2025, 11:59pm (**Only one submission per team**)

In the proposal, describe the project scope, your team and each team member's role (at most 2 pages), the proposal need to be approved before you can proceed to work on it. Each team will work on a different topic, so first come, first serve.

#### **Demo Date and Time:**

Progress Demo: Oct 31, 2025 (Friday) 10:00am

Final Demo: December 5, 2025 (Friday) 10:00am, or before (Make an appointment with me if your team wants to do the demo earlier)

#### **Final Report Deadline:**

December 8 (Monday), 2025, 11:59pm

Progress report is required bi-weekly for each individual team member, NOT the whole team. See the template in the next page.

### Bi-Weekly Report Template

Date:

Progress description (how did you solve the problems from last week):

Problems you encountered:

Next step:

Web links/Articles you researched:

Screenshots: