

# Final Project: What to do?

- In this assignment, you are required to conduct a group project.
- Each group has **1-2** members. Within a group, each student is expected to play a certain role (front-end or back-end) and is responsible of certain parts of the assignment.
- Design and implement a web application using knowledge learned in this course. You can choose your own applications. The following is just a list of examples:
  - Pet shopping (E-commerce)
  - Online chartroom
  - Live broadcast
  - Bookmarks

# Final Project: What to do?

Your project should have *client side and server side (server side is optional for individual projects)* programming.

- At the client side, you need to develop a **web application** that provides a nice user interface, multiple web pages
- At the server side, you need to develop a program for interacting with the clients, executing the application logic, and managing the application database.

You are expected to demonstrate the functions of your application. If you can deploy your application to a real cloud (or department server), you can gain extra credits for your project.

## Final Project: What to submit?

You need to submit the following documents

### 1. Project outline

Project outline includes the group member information, the project title and the project abstract.

Submit the project outline before **Week 7** via Blackboard.

### 2. Project report

The softcopy should be submitted to the Blackboard system together with the source code and installation guide.

Submit the project report before **Week 13**.

# Final Project: How to assess your project?

- Your work will be graded according to the following criteria:
- Project outline (5%)
- Project functionality and implementation (50%)
  - Application design
    - Reasonable application logic and functions;
    - Client side design, e.g., GUI design, local storage, etc
    - Server side design, e.g., server-client interaction, database/files, etc
    - Others (mobility support, location-based, security, etc)
  - All source codes need to be successfully compiled and have no runtime errors
- Project report (25%)
  - The report provides the detailed design of the web application
    - The system structure, the components of the system and their functionalities, class diagrams, database, programming languages and tools used, testing strategies and results, and user manual;
    - It should also include a section describing the role each member played in the group. Note that team members may receive separate grades.
  - A package of source code
- Project demonstration (20%)+Real Deployment (5%)

## Final Project: What to demonstrate?

- Each group will present and demonstrate the project at the end of the semester.
  - ✓ Present the project overview
  - ✓ Demonstrate the project
    - ✓ No runtime error
    - ✓ Successfully demonstrate the application's functionalities and ease of use
  - ✓ Manage the Q&A section
- Time will be arranged for each group at the end of the semester.

## Final Project: Tentative Arrangement

### Time and venue:

- Date: Week 14 or 15
- Time: TBD
- Venue: TBD
- Each group will have 10 minutes to present and demonstrate the project on the class
- Present the project briefly
- Demonstrate the key functions successfully
- Manage the Q&A section

## Final Project: Marking Sheet

Group No:		
Members and contributions:		
Name	Student ID	Contributions
Check List:		
• Project outline (5%)		
• Project functionality and implementation (50%): <ul style="list-style-type: none"><li>- Reasonable application logic</li><li>- Functionalities</li><li>- Software architecture</li><li>- Client side design</li><li>- Server side design</li><li>- Others (mobility support, location-based, security, etc)</li></ul>		
• Project report (25%): <ul style="list-style-type: none"><li>- Description of the application logic and functionalities</li><li>- Project details</li><li>- User manual (optional)</li><li>- A package of source code and installation guide (optional)</li><li>- Both hardcopy and softcopy of the report</li></ul>		
• Project demonstration (20%): <ul style="list-style-type: none"><li>- Presentation of the project overview</li><li>- No runtime error</li><li>- Demonstration of the application's functionalities</li><li>- Q&amp;A</li></ul>		
• Real deployment (5% extra credits)		
Total		