ASE 285 Projects Overview

Notice:

For general information about ASE course projects, read the ASE Project Stories in the ASE repository:

- https://github.com/nkuase/ASE/tree/main/ASE_story/project

In this slides, we only discss the specific projects in ASE 285 course projects.

ASE 285 Course Projects (Different from the Stories)

1. The Protypes are given:

- Team Project: Todo app web application
- Individual Project: ChatGPT like cross-platform web/desktop applications

2. In Stage 2, students will build MVP (Minimum Viable Product) based on the given prototypes.

Ready for ASE 285 Projects

- All the necessary materials for projects are provided in the ASE 285 repository:
  - https://github.com/nkuase/ase285/tree/main/projects/ready_for_project/pdf

Team Project Topics: Todo App Web Application

1. nodejs
2. express
3. mongodb_and_mongoose
4. sqlite
5. deployment

Individual Project Topics: ChatGPT like Cross-Platform Web/Desktop Applications

1. react
2. websocket
3. electron

Project Prototypes

- All the project prototypes are provided in the ASE 285 repository:
  - https://github.com/nkuase/ase285/tree/main/projects/prototypes

Team Project (5 Steps)

We discuss how to build high-quality software products step by step in 5 steps.

1. TodoApp
2. TodoApp - Mongoose (ODM)
3. TodoApp API
4. TodoApp SQLite
5. TodoApp ORDB

Deployment is not discussed as it is the ASE 230 Topic.

Individual Project (7 Steps)

1. UI React (Frontend)
2. WebSocket (Backend)
3. Sessions
4. Sending Messages From Server
5. Working with OpenAI API
6. Deployment
7. Standalone Desktop Application with Electron

Notice

1. Instead of discussing coding details, we focus on the overall software architecture and design principles in each step.
2. Students think about how to add features to individual & team projects based on the given prototypes (2 features per sprint & project, 8 features in total).

3. Students focus on understanding the prototype code in the 1st sprint & implement features as their MVP.
4. We will discuss the project implementation details in the class room meeting.

Recommendation

1. Start early and finish early.
2. Ask any questions if you have any.
3. Use AI tools wisely for understanding and implementation.
4. Follow the ASE project stories for better understanding of ASE projects.

Warning

1. The detailed schedule can be (and will be) changed.
2. I will discuss the changes during the class room meetings & announce them in Canvas.