## Individual Project Overview

* The individual project is intended to evaluate your proficiency in designing and developing WIS.
* The project is a large semester long project that will use all the skills you learn in the course.
* The project includes the following 3 assessment items:
  + technical **design document** (**20% Weighting**)
  + **code review** (**10% Weighting**)
  + final **project submission (30% Weighting)**
* The detailed feature requirements are listed in **Table 1**. Please make sure you carefully read them and feel free to ask questions.
* You are required to design the user interface and how each feature is implemented. Design mockups or screen grabs will not be provided.
* You can use any CSS components library e.g. Bootstrap, Tailwind, DaisyUI in the project but are not allowed to use pre-made templates.

# Project Assessment Item (Weighting 30%)

Table 1 includes the grade breakdown for each required feature. Select 1 advanced feature worth 4 grade points.

**Table 1: Project functionality and grade breakdown.**

|  |  |  |
| --- | --- | --- |
| ID | Feature Description | Max Grade = 30 |
| 1 | **Core Functionality** | **18 marks** |
| 1.1 | Includes a landing page and supports login with social providers (e.g. Google, Github, etc) or stores passwords | 1 |
| 1.2 | Implements appropriate authorization (security) across all web pages and features | 1 |
| 1.3 | Implements an admin interface to manage (create, list, edit and archive) user subscriptions | 2 |
| 1.4 | Implements an appropriate relational database with fields to store all required data in a non-redundant manner | 2 |
| 1.5 | Implements an intuitive, responsive and accessible web design | 2 |
| 1.6 | Implements a paged UI to allow users to create, list, edit and delete [ menus | data stories | surveys | custom: **Invoices** ] | 2 |
| 1.7 | Implements a UI for the user to add items [ menu items | upload csv | survey questions | custom: **Invoice Templates** ] | 4 + 2 |
| 1.8 | Generates QR codes to share [ menu for each table | link to data story | link to survey | custom: N/A ] | 0 |
| 1.9 | Successful deployment of web application and database to either UQCloud or AWS | 2 |
| 2 | **Project Specific Features** | **2 marks** |
| 2.1 | Invoices Dashboard | 2 |
| 3 | **Code Style and Quality** (Note: Max Grade will be capped at 3 grade points if only 50% of functionality is implemented) | **6 marks** |
| 3.1 | Adheres to the MVC patterns using the CodeIgniter conventions | 1 |
| 3.2 | Avoids code duplication and implements shared code for content types (eg charts, survey questions, different types of menu items) | 2 |
| 3.3 | Addresses relevant security concerns (e.g. prevents cross-site submission, and SQL injection, etc) | 1 |
| 3.4 | HTML, CSS, PHP and JavaScript are neatly formatted and commented | 2 |
| 4 | **Advanced Features (Select 1 advanced feature to equal to 4 grade points. Multiple advanced feature items will not be graded.)** |  |
| 4.1 | Include GenAI – API calls to LLM to assist with generating items for an invoice | 4 |