INFS3202/7202 – Web Information Systems

Design Document Assessment Item: Getting Started Guide

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Assessment

From Course Profile

5.1 Assessment Summary

This is a summary of the assessment in the course. For detailed information on each assessment, see 5.5 Assessment Detail below.

Assessment Task	Due Date	Weighting	Learning Objectives
Participation Weekly Activities and Code Review	Due weekly at 3pm on Friday from Week 2 - 11, except in Week 6 where the due date is Thurs 28/3/24	20%	3, 4, 5, 6
Project Report Design Document	08 Apr 24 15:00 Week 7	20%	1, 2, 5
Project Web Project	17 May 24 15:00 Week 12	30%	1, 2, 3, 4, 5
Exam - during Exam Period (Central) Final Exam	Examination Period	30%	1, 2, 3, 4

- **You can use Gen AI**
- **Gen AI includes online chatbots such as Google Bard, Bing Gemini and ChatGPT as well as VS Code extensions Github CoPilot. You will need to reference your use of Gen AI in your assessment submission.**

Design Document Assessment Item

- **Due Week 7, Monday 8 April, at 3pm**
- **Weighting = 20%**
- The design document is a pre-project implementation document that presents a plan for the development of your chosen project.
- You will need include:
  - Comprehensive Database diagram
  - HTML Mockups

Design Document – Assessment Item

From Course Profile

Design Document

Type: Project Report
Learning Objectives Assessed: 1, 2, 5
Due Date: 08 Apr 24 15:00 Week 7
Weight: 20%
Task Description:
1. The assignment is designed to test your ability to design and document a WIS, with a focus on the technology part of this course.
2. Students will be able to select from one of three project topics. Students will be required to select ONLY ONE of the projects and author a comprehensive design document.
*** 3. For the students who have extensive experience in Web system development, you have the option to propose a new project topic. However, you must submit a project proposal in week 2 and seek pre-approval from the Course Coordinator.
Criteria & Marking:
UQ Students: Please access the profile from Learn.UQ or mySI-net to access marking criteria held in this profile.
Submission:
Assignments are to be submitted online via Blackboard unless otherwise specified for a particular assessment item.

Design Document Assessment Item

- **Due Week 7, Monday 8 April, at 3pm**
- **Weighting = 20%**
- The design document is a pre-project implementation document that presents a plan for the development of your chosen project.

Section	Description	Max Grade = 20
Project Overview	You are required to provide a comprehensive explanation of the main purpose of your project and the target audience.	2
Key Features	Describe the key features of your project.	2
UI/UX Design HTML Mockups	Choose a CSS UI library and implement HTML mockups that represent all the main features of your project. The HTML mockups must be responsive and resize across multiple device sizes.	6
Database Design	Include an Entity-Relationship Diagram with all database tables, fields and relationships between tables. The database must support multiple users for the SaaS functionality.	6
Technology Research	Detail any research of evaluation of component choices e.g. choice of a text editor, charting library, etc.	2
Timeline	You are required to outline the major deliverables for each milestone.	1
References	Include relevant references and declare your use of GenAI.	1

Step 1: Choose a Project

Project Name	Description
MenuScanOrder	MenuScanOrder is a Software as a Service (SaaS) platform designed specifically for restaurants, cafes, and coffee shops to streamline their ordering process.
ChartTale	ChartTale is a Software as a Service (SaaS) platform designed to transform raw data into compelling visual stories. It allows users to sign up and upload CSV files, which can contain any type of data they wish to visualize.
EvalForm	EvalForm is a Software as a Service (SaaS) platform designed to simplify the process of gathering feedback and conducting surveys. This user-friendly platform enables users to create single-page surveys that support multiple-choice questions as well as free text entry, catering to a wide range of survey needs.
Custom	You can submit a proposal for a project idea for a SaaS platform. **You must submit your proposal to the Course Coordinator via email by the end of Week 2.** You can decide if you want to make the project idea available to other students. Can't be a project from last years course.

Step 2: Review the Required Functionality

Project Name & Description	Main Features
MenuScanOrder Order2Table is a Software as a Service (SaaS) platform designed specifically for restaurants, cafes, and coffee shops to streamline their ordering process. This innovative platform allows these businesses to sign up and create a digital menu, complete with categories, items, and prices. Upon setting up their account, they can enter the total number of tables in their establishment. The system then generates unique QR codes for each table, which can be printed out and placed at tables for guests to scan.	**Digital Menu Creation:** Allows businesses to easily create and manage a digital menu with categories, items, and pricing. **QR Code Generation:** Automatically generates unique QR codes for each table, facilitating easy access to the menu by guests. **Seamless Ordering:** Guests can scan the QR code at their table to view the menu and place orders directly from their smartphones. **Order Management:** Staff can view and manage orders in real time, ensuring a smooth dining experience for guests.
ChartTale ChartTale is a Software as a Service (SaaS) platform designed to transform raw data into compelling visual stories. It allows users to sign up and upload CSV files, which can contain any type of data they wish to visualize. After uploading, users can create a variety of charts and add textual descriptions to narrate the story behind the data. One of the unique features of ChartTale is its ability to share these data stories publicly. Additionally, users can generate QR codes that link directly to their stories, making it easy to access and share with a wider audience.	**Data Upload:** Users can upload data in CSV format, making it easy to start visualizing data without complex setup. **Chart Creation:** Offers a wide range of chart types to choose from, enabling users to find the best visual representation for their data. **Story Narration:** Allows users to add textual descriptions alongside their charts, providing context and insights into the data presented. **QR Code Generation:** Generates QR codes for each data story, simplifying the process of sharing and accessing these stories.
EvalForm EvalForm is a Software as a Service (SaaS) platform designed to simplify the process of gathering feedback and conducting surveys. This user-friendly platform enables users to create single-page surveys that support multiple-choice questions as well as free text entry, catering to a wide range of survey needs. Once a survey is created, users can generate and print out sheets with QR codes linked to their surveys, making it exceptionally easy to share with respondents in various settings. Additionally, EvalForm provides functionality for users to view responses in the form of simple charts, offering immediate insights into the collected data.	**Survey Creation:** Users can easily create single-page surveys with a mix of multiple-choice questions and free text responses to accommodate diverse feedback collection needs. **QR Code Generation:** Allows for the generation of QR codes for each survey, facilitating easy access and distribution to potential respondents. **Survey Response Collation:** Allows respondents to complete surveys and stores the results. **Response Visualization:** Users can view simple charts of survey responses, providing quick and understandable insights into the collected data.

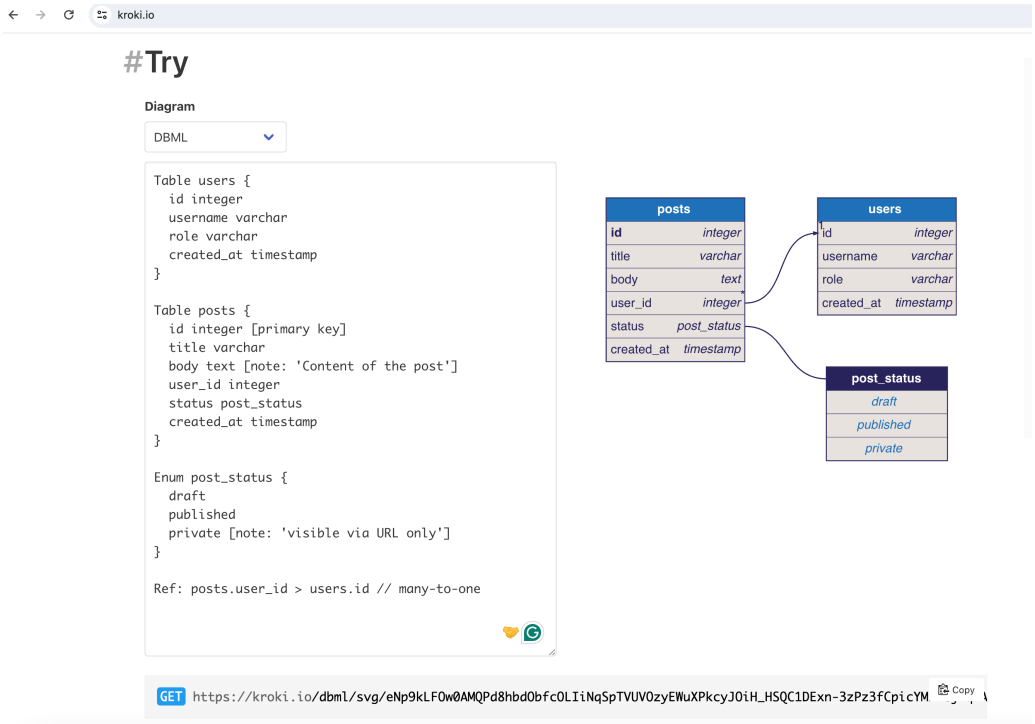
Step 3: Plan your Approach

- Lectures and Labs (practicals) from Week 1 - 5 will help you gain the skills to complete the assessment item. You need to work in parallel.

Week	Lecture	Practicals	Design Document Assessment
Week 1	Course Overview & Intro to WWW	No Practical in Week 1	
Week 2	Creating and Deploying Web Applications (includes HTML, CSS Recap, PHP)	Practical 1: UQCloud, HTML and PHP	Choose Project
Week 3	MVC 1 – Controller and View (includes UX prototyping with CSS libraries)	Practical 2: Building your First CodeIgniter Project	Review and Understand required functionality. Work on the Overview, Key Features and Timeline sections.
Week 4	MVC 2 – Models & SQL Databases	Practical 3: Databases and Models	Design the database tables
Week 5	MVC 3 – Creating CRUD Applications	Practical 4: Designing UI's with CSS Frameworks	Design the UI and implement as an HTML mockups
Week 6	MVC 4 – Advanced topics	Practical 5: Login and Form Processing	Complete the design of the HTML mockups, Technology Research and References section.
Mid-Semester Break			

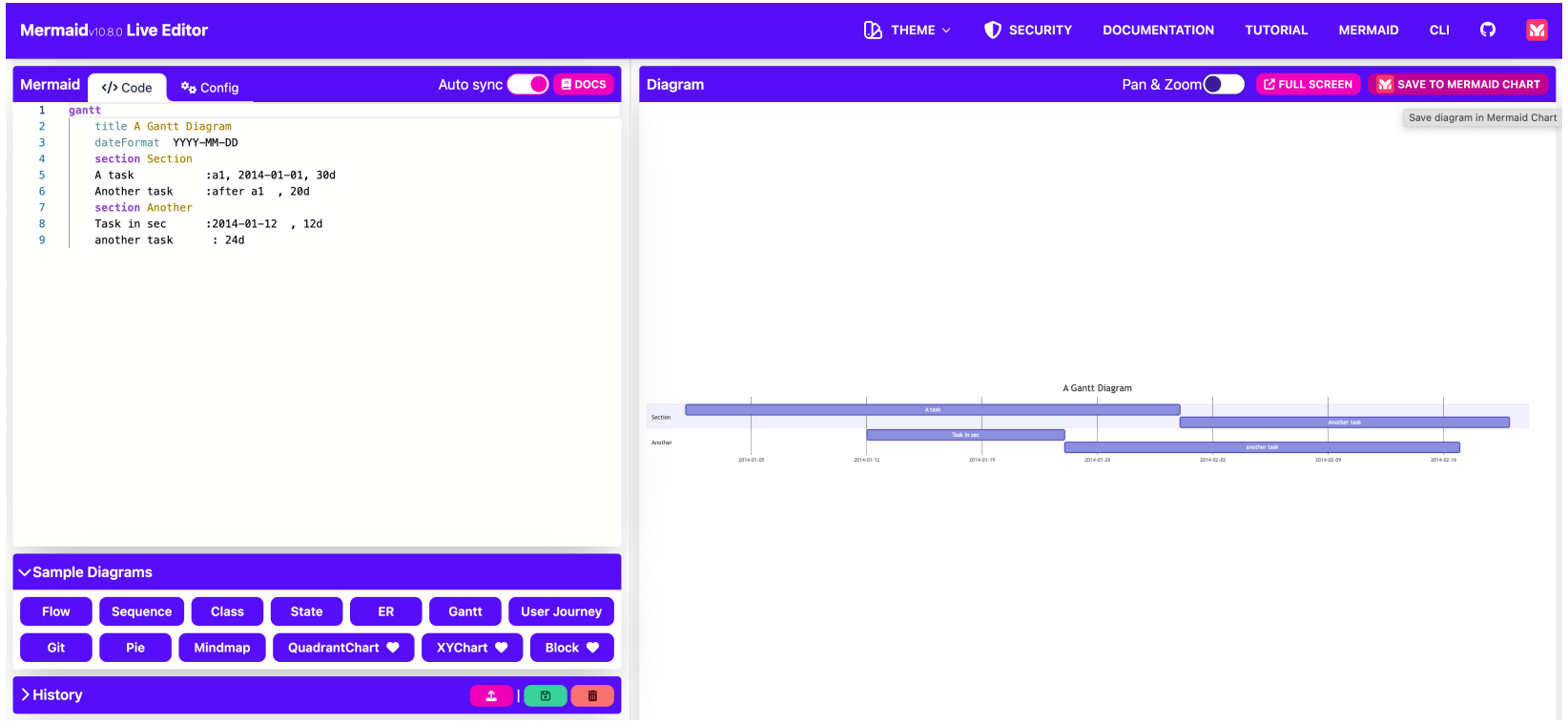
Database Design Tips

- https://kroki.io/ supports DBML which provides a quick way to convert text definitions of tables to a diagram
- Remember that your database is for a SaaS product with multiple users!



Timeline Design Tips

- https://mermaid.live/ supports Gantt Charts



General Tips

- Check for FAQ updates.
  All good questions that students ask are added to the FAQ.
- If uncertain, please email the Course Coordinator or post on the Forum.
  We try to have a very responsive reply time.
- In Week 3's Lecture we'll discuss GenAI and Prompting techniques.

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Q&A

Thank you