Assignment 1 for Group Set 1

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Assignment Name	Front-end Development (Static Website)
Assignment Description	The purpose of this assignment is to design and implement front-end web pages through analyzing the requirements of the project under a specific domain. This assignment is the first phase of the entire project. Students are supposed to acquire the following skills from the assignment: 1. Analyzing project requirements and translating them into practical web page designs 2. Proficiency in front-end web development (static website) 3. Gaining hands-on experience in working with cutting-edge technologies within the a specific domain (e.g., Blockchain and Web 3.0) 4. Collaborating effectively as a team to achieve project goals in the first phase of the overall development process Students can choose any of these projects based on their interests and the skills they wish to develop. There are three projects available for selection: 1. Smart Contract Audit System 2. Decentralized Trading System 3. Blockchain Data Visualization System **The detailed description for each project can be found below in Section 1 Project Description*
Weight	30% of your total marks for the unit
Due Date	**Sunday, 04/02/2024., 11:59 pm**
Submission	Upload the project in a zip file via Canvas Assignment Submission. Turnitin will be used for similarity checking of all submissions.
Late Penalties	10% deduction of the available mark per calendar day or part thereof for up to one week. Submissions that are more than 7 calendar days after the due date will receive a mark of zero (0) and no assessment feedback will

	be provided.

1 Project Description

The project description provides an overview of the background and essential requirements for three different projects: 1) smart contract audit system 2) decentralized trading system and 3) blockchain transaction information visualization system. Students are supposed to validate the project requirements with their clients (workshop tutors). Students should collaboratively discuss in their group and transform these requirements into corresponding documentation and practical code functions. Additionally, students have the opportunity to propose and integrate further enhancements into the system, which can be reflected in the final design.

The Decentralized Trading System aims to provide a secure and user-friendly platform for peer-to-peer trading of digital assets without the need for intermediaries. The system's primary goal is to enable seamless, trustless, and transparent transactions, enhancing the overall trading experience for users within the blockchain ecosystem.

Note: in this system, students don't need to implement the payment gateway.

Core Functional Requirements:

1. Users can view digital assets available for trading.
2. All the listed digital assets information should be stored in the database.
3. The system should provide a search and filter functionality for users to discover specific assets of interest.
4. The website will implement smart contracts to act as escrow during the trading process, and smart contracts should ensure that assets are held securely until the trade is completed or canceled.
5. Users should have access to a transaction history to view their past trades.

2 Submission

You must submit your assignment via the assignment submission link (i.e., "Assignment 1 Submission") on the Canvas site by the deadline specified in Section 1 (**Sunday, 04/02/2024., 11:59 pm**).

- There will be NO hard copy submission required for this assignment.
- You are required to submit your assignment as a .zip file named with your group number. For example, if your group number is "group 1-23", you would submit a zipped file named "group 1-23.zip".
- Do not include any unnecessary file in this folder
- Note that marks will be deducted if this requirement is not strictly complied
- No submission accepted via email.

3 Deliverables

Your submission should contain the following files:

Static Website Source Code: A zipped file for the static front-end source code (e.g., HTML, CSS, and JavaScript files)

Project Design Document: A comprehensive project design report that details:

- Project background and introduction
- Team introduction
- Project requirement list and description
    - You should demonstrate the understanding of the given system requirements
- Project design
    - front-end prototype, e.g., sketches on paper, hand-drawn sketches on an iPad, and design drawings on a design platform (e.g., Axure, Sketch)
    - overall system architecture design

Contribution Form: A form includes sections for the personal information of each team member, details of the contribution, and other additional information. You can download the form here Download here.

Important Notes:

- Please be careful to ensure you do not publicly post anything which includes your reasoning, logic or any part of your work to the Canvas discussion, doing so violates Swinburne plagiarism/ collusion rules and has significant academic penalties. Use email to your allocated tutor to raise questions that may reveal part of your reasoning or solution.
- In this Assessment, you must NOT use generative artificial intelligence (AI) to generate any materials or content in relation to the assessment task.
- According to the feedbacks from students, the team has updated the contribution form. All the team members are required to discuss and sign together within the group before submitting. This can solve the issue of student form submissions being overwritten.

4 Marking Criteria

Part 1: Static Website Source Code (zip file):

Commenting your code is essential as part of the assessment criteria (refer to Marking rubrics). You should also include comments at the beginning of your program

file, which specify your name, your Student ID, and in-line comments within the program.

Part 2: Design Document

The length of the report should be at least 800 words (excluding references). You must acknowledge all statements and information taken from other sources and adhere to the guidelines published regarding plagiarism. All ideas and material taken from references must be cited within the report itself and a full reference list and bibliography (if appropriate) must be provided at the end of the report. Diagrams and/or tables may be used if you think this will strengthen your arguments. Remember that diagrams and tables adapted from other sources must be cited (***Harvard*** style) as well.

This assignment is worth 30% of your total mark. You must demonstrate that you:

- Can understand the requirements of the corresponding projects and
- Identify the design elements needed to display on the web system.
- Are able to design a user-friendly prototype and web system.
- Can use the appropriate techniques (e.g., React.js) to implement the system front-end (static).

Points

30

Submitting

a file upload

Due	For	Available from	Until
-N/A	COS30049-HX01-HCM-2024-HE Semester (Jan) - HCMC	-N/A	-N/A
-N/A	Everyone else	-N/A	-N/A

Rubric

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Rubic1		
Criteria	**Ratings**	**Pts**

Rubic1

Criteria	Ratings		Pts
This criterion is linked to a learning outcomeProject design report presented based upon multiple references, includes 1) Professional standards in organization and writing	**2 Pts** **Full marks**	**0 Pts** **No marks**	2 pts
This criterion is linked to a learning outcomeProject design report presented based upon multiple references, includes 2) References – correct number, cited and referenced correctly	**1 Pts** **Full marks**	**0 Pts** **No marks**	1 pts
This criterion is linked to a learning outcomeProject design report presented based upon multiple references, includes 3) User-friendly design of the prototype	**2 Pts** **Full marks**	**0 Pts** **No marks**	2 pts
This criterion is linked to a learning outcomeProject design report presented based upon multiple references, includes 4) Appropriate understanding of the project requirements	**5 Pts** **Full marks**	**0 Pts** **No marks**	5 pts
This criterion is linked to a learning outcomeFront-end development (static website), includes 1) Consistency in design elements (color, typography, icons)	**1 Pts** **Full marks**	**0 Pts** **No marks**	1 pts
This criterion is linked to a learning outcomeFront-end development (static website), includes 2) Logical organization of content and pages	**2 Pts** **Full marks**	**0 Pts** **No marks**	2 pts
This criterion is linked to a learning outcomeFront-end development (static website), includes 3) Responsiveness on different screen sizes	**1 Pts** **Full marks**	**0 Pts** **No marks**	1 pts

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Criteria	**Ratings**	**Pts**
This criterion is linked to a learning outcomeFront-end development (static website), includes 4) Reflect project core function requirements in the system	**12 Pts** **Full marks** / **0 Pts** **No marks**	12 pts
This criterion is linked to a learning outcomeFront-end development (static website), includes 5) Proper code comments inside the file	**2 Pts** **Full marks** / **0 Pts** **No marks**	2 pts
This criterion is linked to a learning outcomeFront-end development (static website), includes 6) Clean and well structured source code and program files	**2 Pts** **Full marks** / **0 Pts** **No marks**	2 pts
Total points: 30		