



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

**MALAYSIA-JAPAN INTERNATIONAL INSTITUTE OF
TECHNOLOGY (MJIIT)**

SECD 2613 SYSTEM ANALYSIS AND DESIGN

PHASE 3 - Analysis and Design

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Group 2

DueDate: 26/06/2024

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1.0 Overview

The Personal Portfolio Website project aims to design and develop a comprehensive personal web-based platform that will innovate the way a person can showcase their personal projects, skills, experiences and accomplishments in a professional and eye-catching manner, all in one website. By providing a platform for users to personalize their portfolio with an interactive and intuitive online platform, we will streamline the process of showcasing projects, past experiences, highlight skills, and their work to potential employers, clients and collaborators.

2.0 Problem Statement

Many freshly graduated students and even experienced professionals face significant challenges in presenting their skills, projects, and accomplishments effectively. Traditional resumes and generic portfolio formats fail to adequately highlight unique talents and experiences, resulting in missed opportunities for employment and professional growth. The absence of a centralized, user-friendly system for creating and managing portfolios further exacerbates these issues, making it difficult for individuals to showcase their potential to employers, clients, and collaborators.

ISSUES (CURRENT SITUATION)

Ineffective Presentation: Traditional resumes and generic portfolios do not effectively highlight individual skills and projects.

Lack of Centralization: There is no efficient system for compiling and managing portfolio content in one place.

Difficulty in Updates: Users find it challenging to keep their portfolios up to date in an easy way.

Limited Visibility: Poor search engine optimization reduces the visibility of portfolios, making it harder for users to be discovered.

Absence of Personal Branding: Current tools do not allow users to reflect their unique identities and styles in their portfolios.

OBJECTIVES (DESIRED SITUATION)

1. Create a user-friendly platform that allows users to easily showcase their personal projects with detailed descriptions, visually-captivating profiles and images.
2. Develop and implement a content management system that allows swift updates and personalization of portfolio items, projects, and achievements.
3. Guarantee a receptive and accessible website across different devices and screen sizes.
4. Optimize the website for search engines to improve visibility, making it easier for users to find and visit the site.
5. Integrate elements of personal branding into the site to reflect the users' unique identity and style.

REQUIREMENTS

User-Friendly Interface: The platform must be intuitive and easy to navigate for users with varying levels of technical expertise.

Responsive Design: The website must be accessible and functional across different devices and screen sizes.

Customization Options: Tools for personal branding and customization to reflect the user's unique identity.

Security: Ensure the platform is secure to protect user data and privacy.

Usability Testing: Conduct thorough testing to ensure the platform is user-friendly and free of bugs.

CONSTRAINTS

Budget: The project must be developed within the allocated budget.

Time: The project needs to be completed within a specified timeframe.

Technical Limitations: The platform must be compatible with existing technologies and infrastructure.

User Adoption: Ensuring ease of use to promote widespread adoption among users with different technical backgrounds.

Compliance: The platform must comply with relevant data protection and privacy regulations.

3.0 Proposed Solutions

Solution 1: Development of an Intuitive Web-Based Platform

Description: Develop a user-friendly and visually appealing web-based platform that allows users to create and manage their personal portfolios with ease. The platform will include a robust content management system and customization options to reflect users' personal branding.

Features:

- **User Interface:** Design an intuitive interface with drag-and-drop functionality for easy content arrangement.
- **Customization:** Provide templates and design tools to enable users to customize their portfolios to match their personal style.
- **Content Management:** Implement a content management system that allows users to quickly add, update, and organize portfolio items.
- **Responsive Design:** Ensure the platform is fully responsive, providing an optimal experience across all devices and screen sizes.

Solution 2: Implementation of a Comprehensive Content Management System

Description: Develop a comprehensive system that supports the creation, management, and updating of portfolio content, including text, images, videos, and other multimedia elements.

Features:

- **User-Friendly Dashboard:** Provide an intuitive dashboard for managing portfolio content.
- **Media Library:** Include a media library for storing and organizing images, videos, and other multimedia assets.
- **Template Library:** Offer a variety of pre-designed templates that users can customize.
- **Version Control:** Implement version control to track changes and allow users to revert to previous versions if needed.

Solution 3: Responsive Design and Cross-Platform Compatibility

Description: Ensure the platform is designed with a responsive layout to provide an optimal user experience across different devices and screen sizes.

Features:

- **Responsive Layouts:** Design layouts that adapt to various screen sizes, from desktops to mobile devices.
- **Cross-Browser Compatibility:** Ensure the platform works seamlessly across all major web browsers.
- **Mobile Optimization:** Optimize the platform for mobile devices to ensure fast load times and smooth navigation.
- **Accessibility Features:** Incorporate accessibility features to ensure the platform is usable by individuals with disabilities.

Solution 4: Integration of Personal Branding Elements

Description: Incorporate tools and features that allow users to infuse their portfolios with elements of personal branding, making them stand out.

Features:

- **Custom Themes and Templates:** Provide customizable themes and templates that reflect different personal styles.
- **Branding Tools:** Include tools for adding logos, custom fonts, color schemes, and other branding elements.
- **Profile Customization:** Allow users to create detailed profiles with personalized biographies, contact information, and social media links.
- **Interactive Elements:** Integrate interactive elements such as animations, hover effects, and interactive project showcases.

Solution 5: Comprehensive Testing and Optimization

Description: Conduct thorough testing and optimization to ensure the platform's functionality, usability, and performance.

Features:

- **Usability Testing:** Perform usability testing with real users to gather feedback and identify areas for improvement.

- **Performance Optimization:** Optimize the platform for fast load times and smooth performance.
- **Cross-Platform Testing:** Test the platform across different devices, browsers, and operating systems to ensure compatibility.
- **Feedback Mechanism:** Implement a feedback mechanism for users to report issues and suggest improvements.

4.0 Current Business Process

Fresh Graduate Creating a Portfolio

1. Initial Setup

- Task: Create User Account or Login
- Actions:
 - Register and create an account on the platform.

2. Content Collection

- Task: Gather all necessary content for the portfolio.
- Actions:
 - Collect academic transcripts, certificates, project details, work samples, and resume.
 - Organize multimedia content like images, videos, and presentations.

3. Portfolio Creation

- Task: Set up the portfolio
- Actions:
 - Choose a template or layout that fits personal branding needs.
 - Input personal information, skills, and experiences.
 - Upload and format multimedia content and project descriptions.

4. Customization

- Task: Customize the look and feel of the portfolio.

- **Actions:**
 - Adjust layout, fonts, and color schemes.
 - Add custom logos and personal branding elements.
 - Ensure the portfolio reflects the individual's unique identity.

5. Publication

- **Task:** Publish and share the portfolio.
- **Actions:**
 - Review the portfolio for any errors or missing information.
 - Publish the portfolio to make it accessible online.
 - Share the portfolio link on job applications, social media, and networking events.

6. Maintenance

- **Task:** Regularly update the portfolio with new content.
- **Actions:**
 - Add new projects, certifications, and work experiences.
 - Update resume and other relevant information.
 - Periodically review and refresh the portfolio's design

5.0 Logical DFD As-Is System

Context Diagram

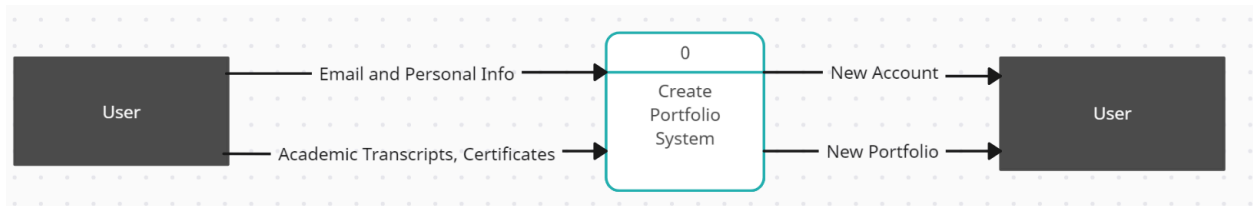
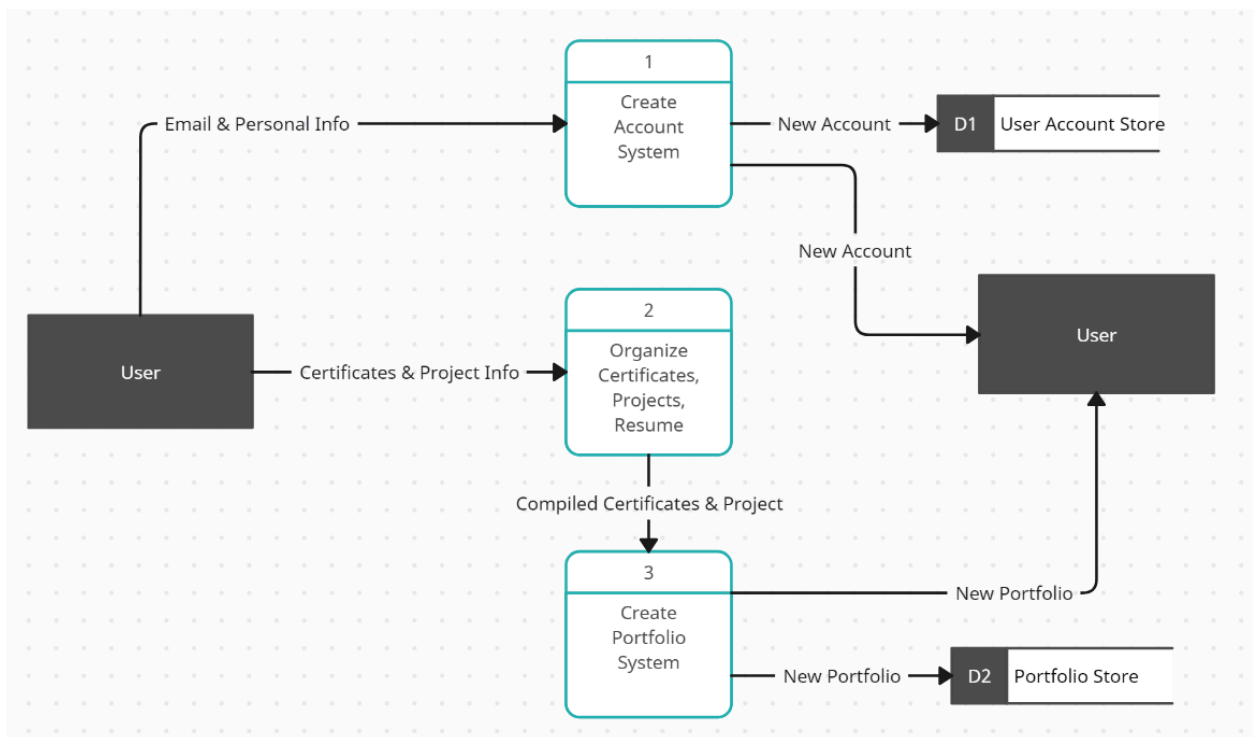
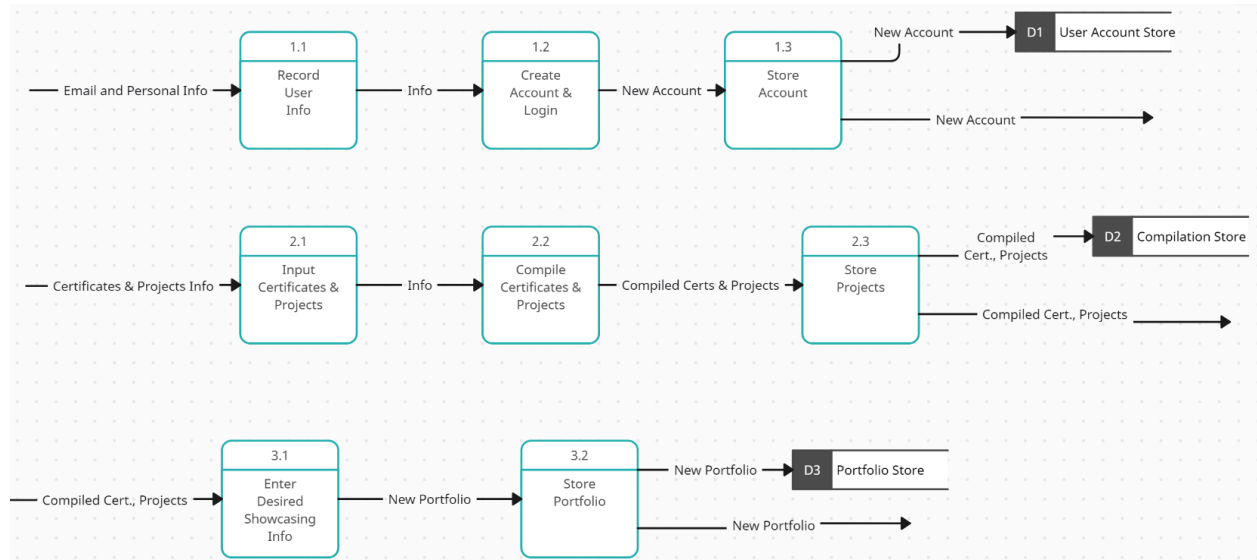


Diagram 0



Child Diagram



6.0 System Analysis and Specification

6.1 Logical DFD TO-BE system

Context Diagram

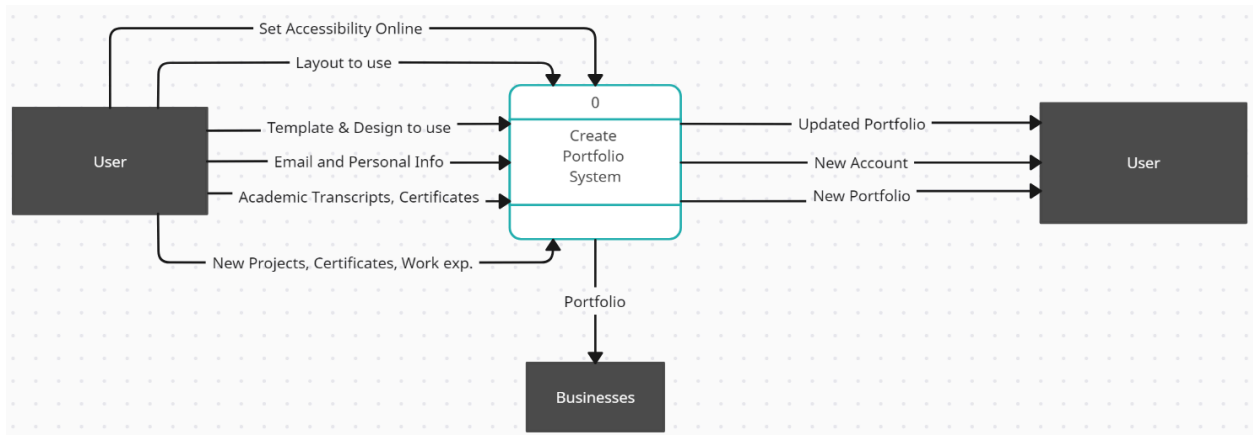
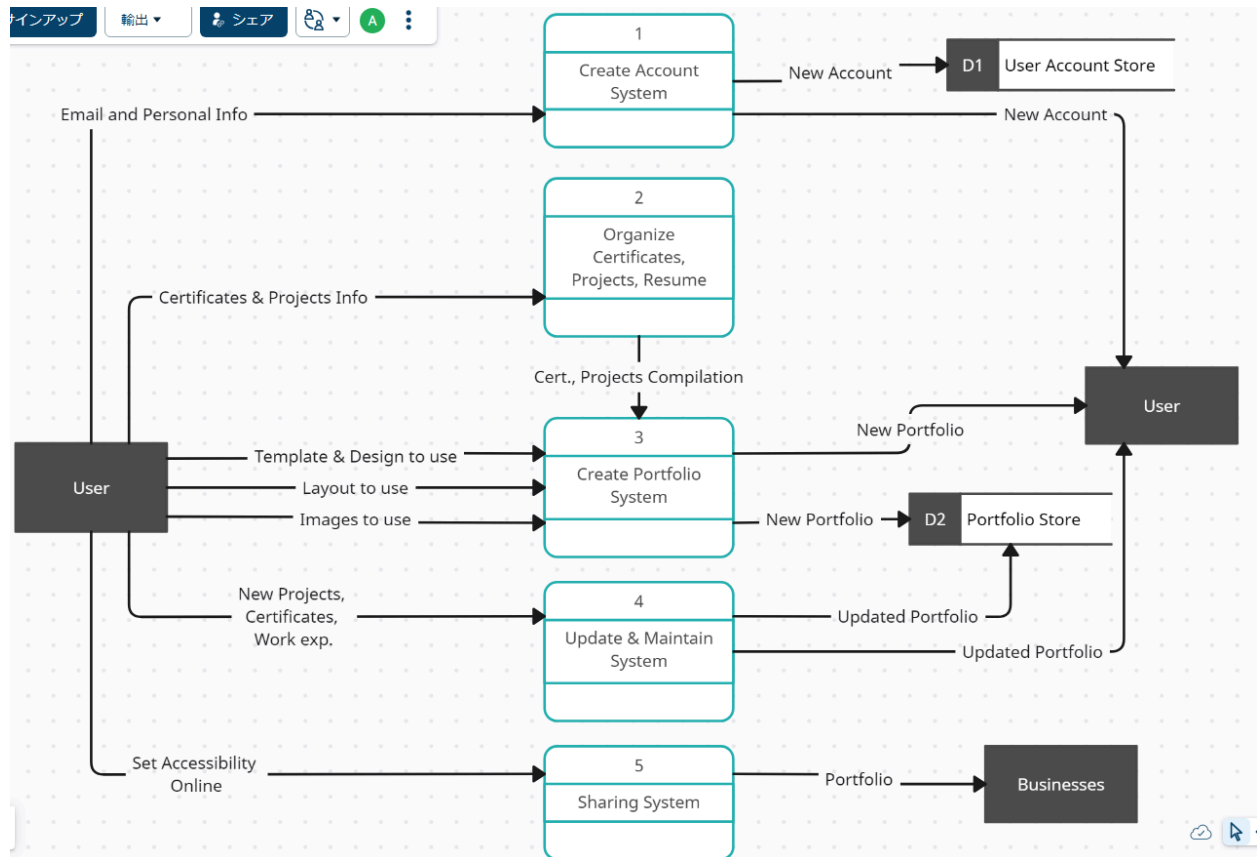
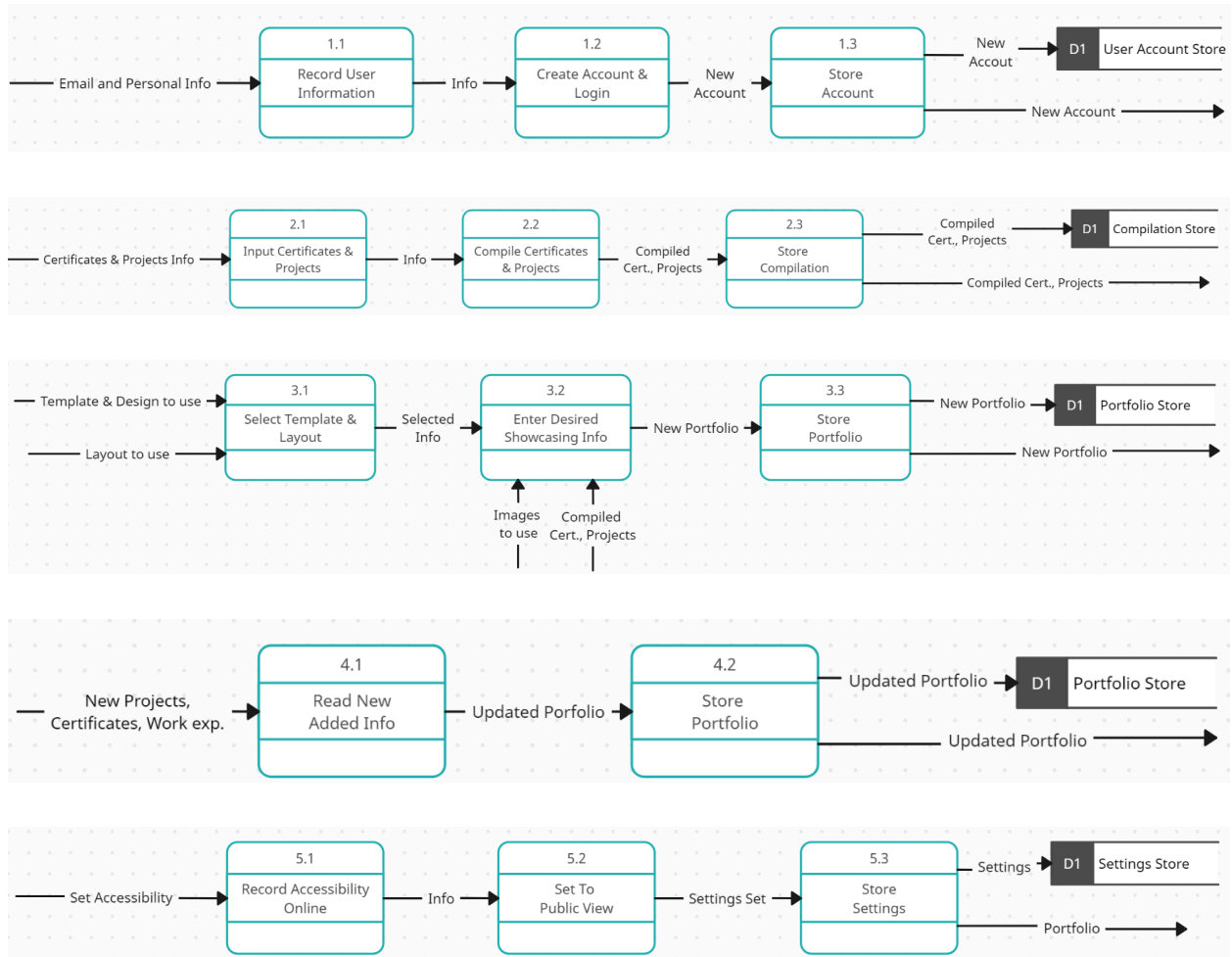


Diagram 0



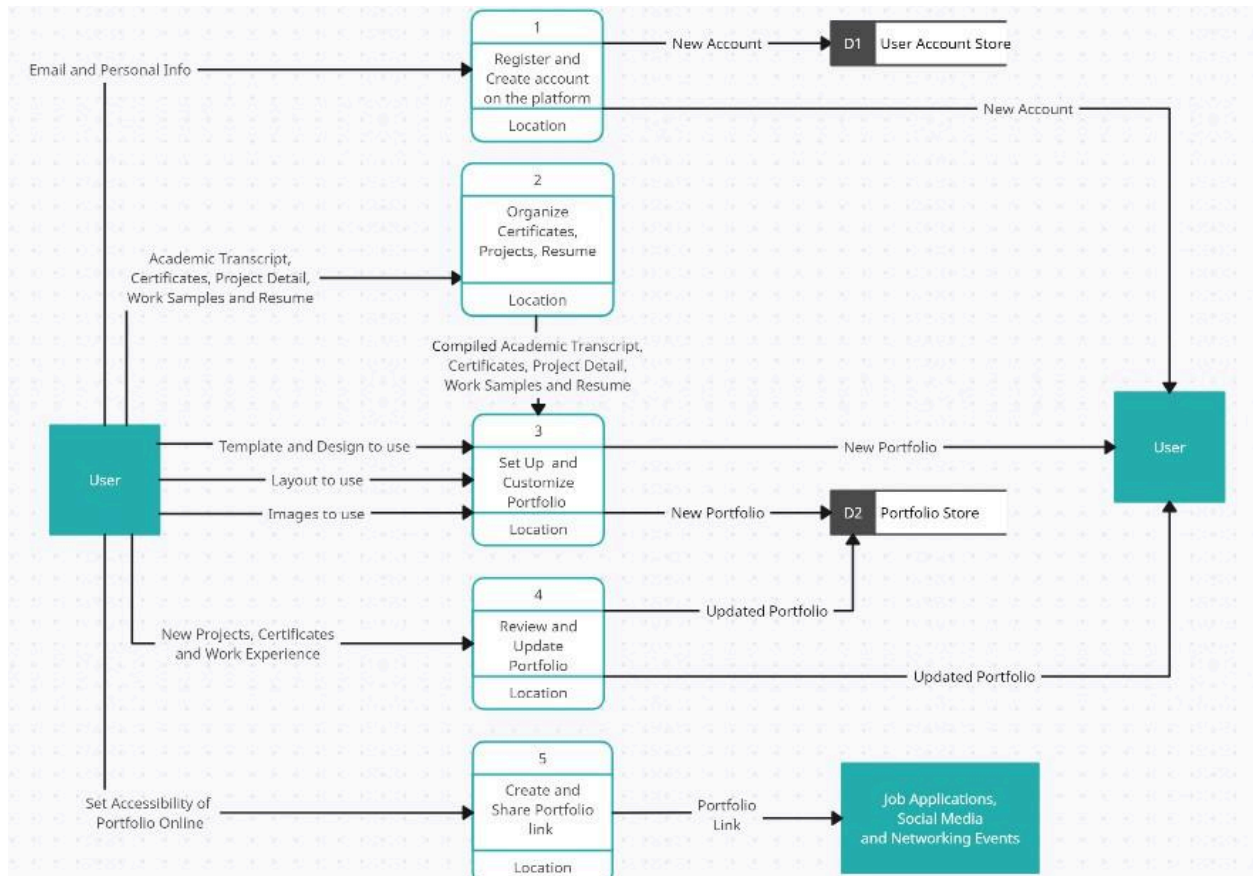
Child Diagram



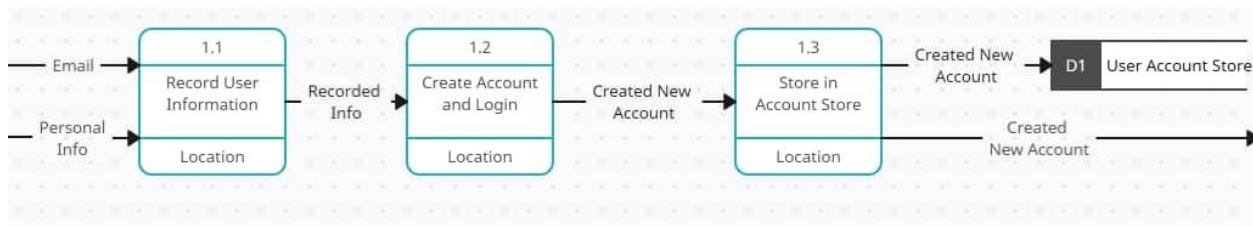
7.0 Physical System Design

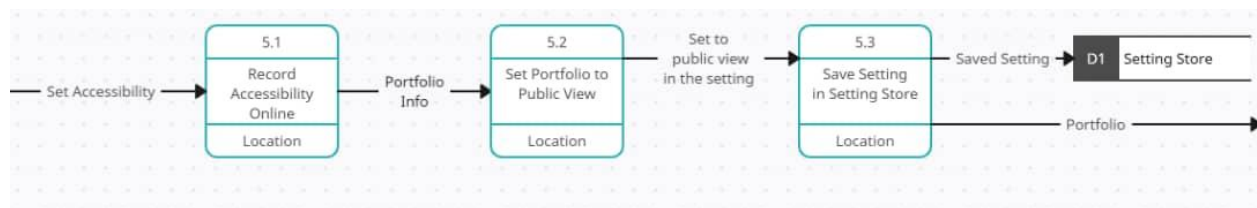
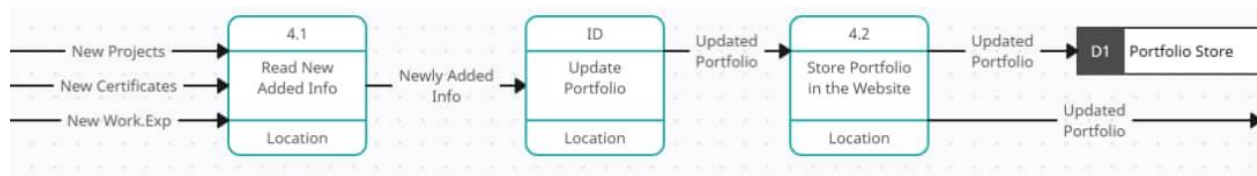
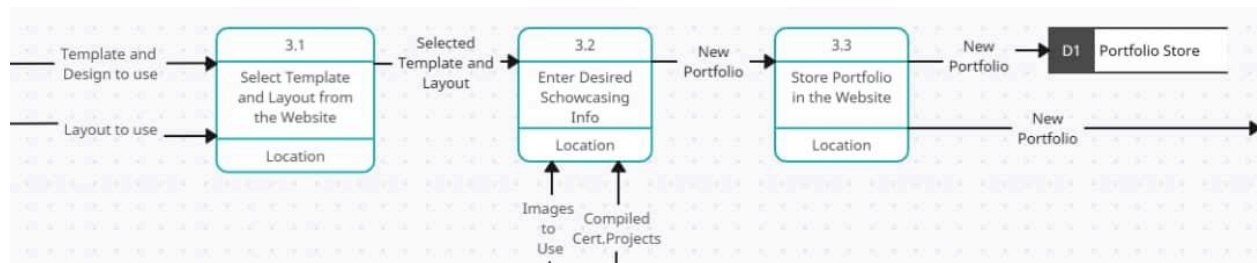
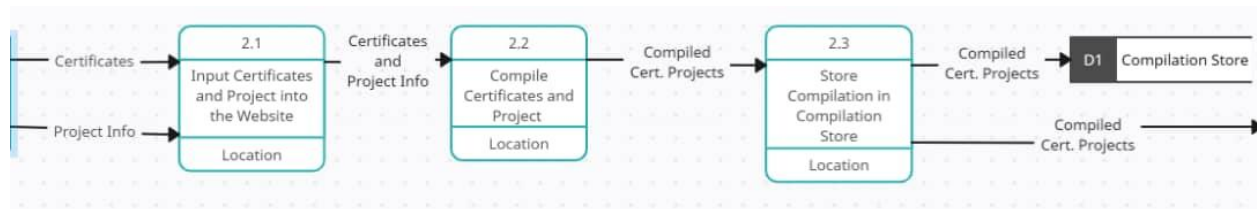
7.1 Physical DFD TO-BE system

Diagram 0



Child Diagram





Crud Matrix

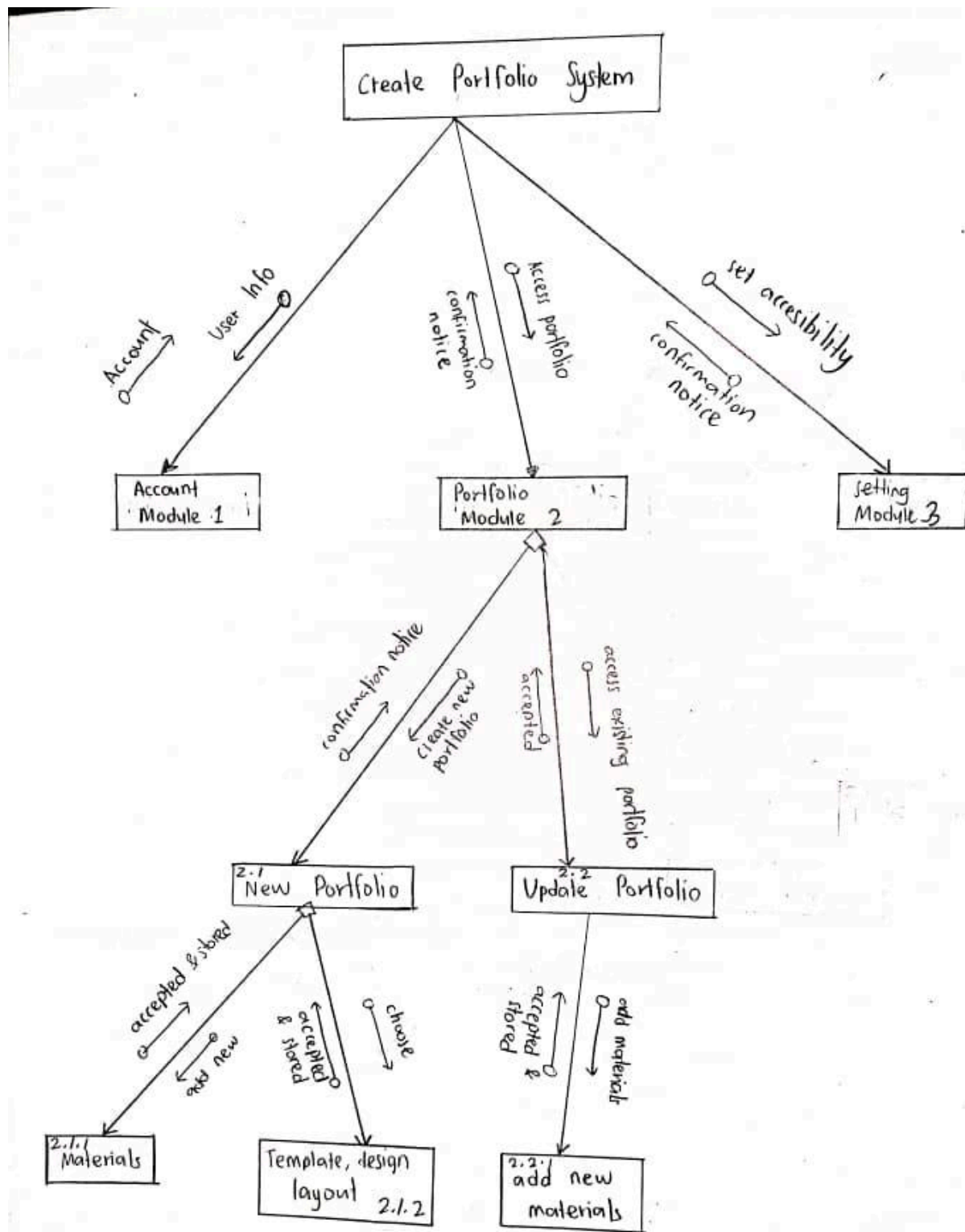
CRUD MATRIX

Activity	User	Info	Portfolio	Online accessibility
Create Account	C	C		
Add certificates, project info, work samples	C	C		
Compile certificates, project info, work samples	RU	RU	RU	
Select template, image and layout to use	R		R	
Create portfolio	C	R	CU	
Save portfolio	U		U	
Add new certificates, projects, work experience	CU	CU		
Update portfolio	RU	R	RU	
Set accessibility online	RU			RU

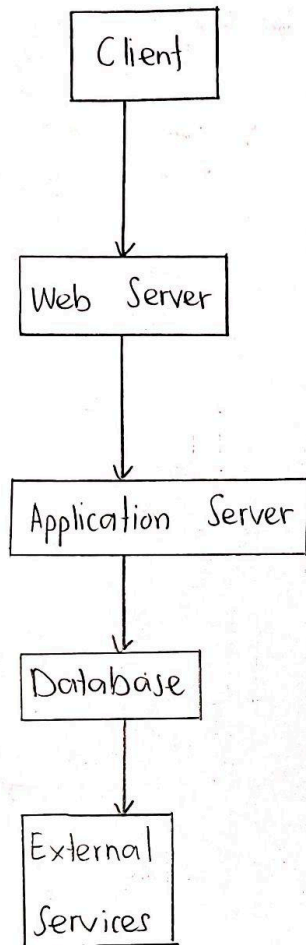
Event Response Table

Event	Source	Trigger	Activity	Response	Destination
Create new account/log on existing account	Customer	Customer email and password	Create new record/Find customer record Store data in User Account Store Send User Interface	Send User Interface	Customer
Customer adds and compiles materials	Customer	Materials uploaded and compiled	Input the materials into the website Compile materials Store data in Compilation Store	Confirmation Web page	Customer
Customer selects template, image and layout to use	Customer	Template, image and layout to use are selected	Enter desired showcasing info Store data in Portfolio Store	Confirmation Web page	Customer
Create and save portfolio	Customer	Portfolio created and saved	Create new portfolio Store data in Portfolio Store	Confirmation Web page	Customer
Customer adds new materials	Customer	New materials added	Read new added info	Confirmation Web page	Customer
Customer updates portfolio	Customer	Portfolio updated	Update portfolio Store data in Portfolio Store	Confirmation Web page	Customer
Set online accessibility	Customer	Accessibility set	Save setting Store data in Setting Store	Confirmation Web page	Customer

Structure Chart



System Architecture



8.0 System Wireframe

Figma prototype link -

[Prototype link \(hyperlink\)](#)

Website link

<https://www.figma.com/proto/vm6mvswE6NM1gjBe6HHtgV/Prototype?node-id=1-3&t=PvqApSXfWrdmaLQQ-1&scaling=scale-down&content-scaling=fixed&page-id=0%3A1&starting-point-node-id=1%3A3>

9.0 Summary

The Personal Portfolio Website project aims to create a comprehensive web-based platform for individuals to showcase their personal projects, skills, experiences, and accomplishments in a professional and visually appealing manner. This platform will help users present their portfolios effectively to potential employers, clients, and collaborators, enhancing their visibility and opportunities.

Many individuals, especially fresh graduates and new professionals, struggle to present their skills and achievements effectively using traditional resumes and generic portfolios. These methods often fail to highlight unique talents and experiences, leading to missed opportunities. Additionally, there is a lack of centralized, user-friendly systems for creating and managing portfolios, making it difficult for individuals to update and showcase their work efficiently.

However, with this project, we intend to propose a solution to those challenges by developing an intuitive web-based platform that implements a comprehensive content management system, with responsive design and cross-platform compatibility, and supporting the platform with thorough testing and optimization for functionality, usability, and performance.

