

Software Design Document (SDD)

Project: **Lab Activity 14**

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Group Number: **4**

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Version Description

Version	Description	Date
1.0	Initial SDD for Snapshot 1. Includes system overview, architecture, basic UI description, and glossary.	December 5, 2025

1 Introduction

1.1 Purpose of the Document

This Software Design Document (SDD) describes the overall design of the *Lab Activity 14* system. It explains the system architecture, main components, data flow, and user interface design based on the requirements defined in the SRS.

1.2 Intended Audience

This document is intended for:

- The development team implementing the system.
- The course instructor and teaching assistants reviewing the design.
- Future developers who may extend or maintain the system.

1.3 Overview of the System

The **Lab Activity 14** system is a structured academic project demonstrating how software documentation is built using LaTeX. It includes a Software Requirements Specification (SRS) and a Software Design Document (SDD) that outline the system's structure, workflow, interface, and key components.

2 System Architecture

2.1 Overall Workflow of the System

Example workflow:

1. User accesses the application interface.
2. User submits or interacts with project data.
3. The back end processes the input and stores information in the database.
4. Results or responses are shown through the user interface.

2.2 System Components

- **Front End:** Provides the user interface using simple UI layouts for interaction.
- **Back End:** Handles logic, data processing, and workflow control.
- **Database:** Stores structured project or user data.
- **External Systems (Optional):** Could include APIs (e.g., authentication or file services).

3 User Interface

3.1 How to Use the System

- Users access the system through a webpage or interface.
- Navigation is provided to move between sections or features.
- Forms allow user input such as uploading data or selecting features.

3.2 Database Design and Explanation

The database consists of organized tables for storing structured information. Tables may include:

- User accounts
- Documents or records
- Metadata related to project workflows

3.3 Screenshots (Optional)

You may insert screenshots here by uploading files to Overleaf and including them using:

```
\includegraphics[width=0.8\textwidth]{filename.png}
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4 Glossary

Acronym	Definition
UI	User Interface
API	Application Programming Interface
DB	Database
SRS	Software Requirements Specification
SDD	Software Design Document

5 References

- Course materials and lecture notes.
- Overleaf Documentation: <https://www.overleaf.com>