File Manager

Course Name: **Software Development Project**
Course No: **CSE 3106**

Submitted to:

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Project Title: File Management
Decision: Use Model View Controller for File Management

1. **Model:** The Model represents the data and business logic of the application. In the case of a file management system, the Model includes the File System, responsible for managing files and folders on the storage.
2. **View:** The View represents the user interface components responsible for displaying information to the user. In this context, the View includes the User Interface elements such as file lists, folders, buttons, etc., which are presented to the user.
3. **Controller:** The Controller acts as an intermediary between the Model and the View. It handles user inputs, processes them, and updates the Model and View accordingly. In a file management system, the Controller manages user actions like creating, deleting, moving, or renaming files and folders.

The flow of interaction in the MVC architecture is typically as follows:

- The user interacts with the View, such as clicking buttons or selecting files.
- The View forwards the user input to the Controller.
- The Controller processes the input, interacts with the Model to perform any necessary operations on the file system, and updates the View to reflect any changes.
- If the Model changes (e.g., due to file operations), it notifies the View, which then updates its display accordingly.

Controller	View selection	View
Process the input	Forwards input	Reflects any changes

Interacts with

model

notifies the view

updates display

Model
Perform necessary operation