4.4 Cause and Effect – Fishbone Diagram

FMSS is designed with a focus on efficiency and user-friendliness. Nevertheless, several factors can impede the system's intended functionality. These factors have been meticulously analyzed and visualized through a comprehensive fishbone diagram, providing a structured representation of the various elements influencing the system's performance.
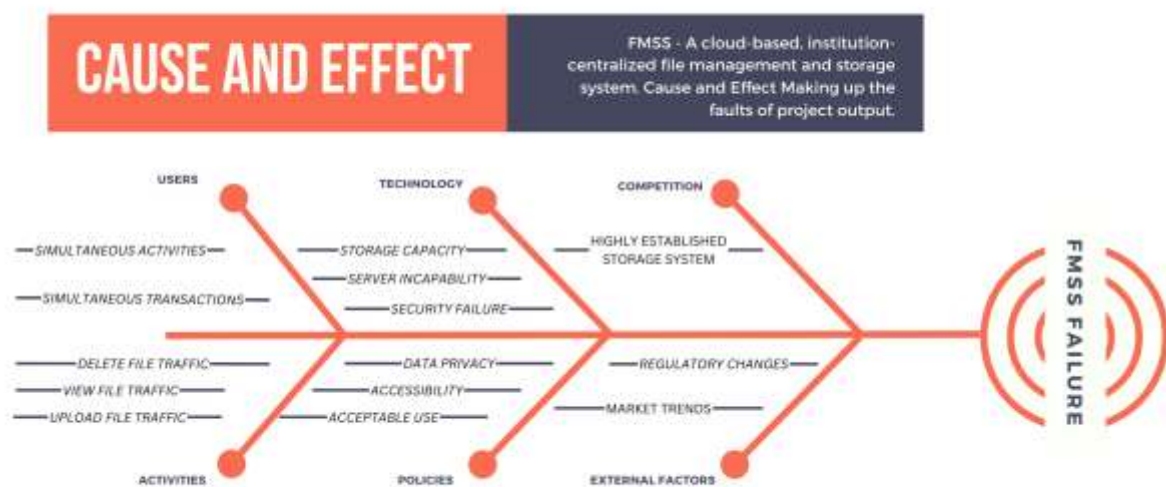
Our current system exhibits imperfections that necessitate attention to achieve our objectives. Among the challenges we face are user-related issues, particularly instances of concurrent transactions that can result in significant network congestion despite the implementation of advanced technologies. Additionally, file transaction activities pose a concern, potentially compromising system performance and rendering it inoperable.
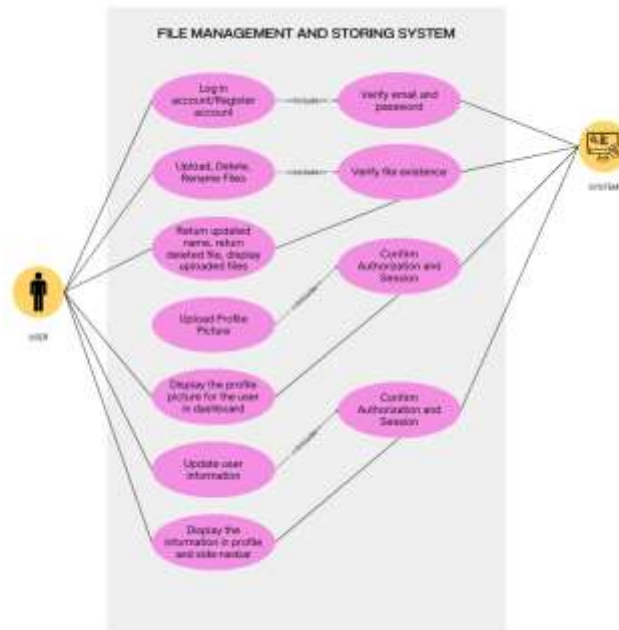
4.5 Use Case Diagram

Users have the option to either create a new account or log in with existing credentials. Upon verification of these credentials, the system will establish user authorization and session management. Authorized users are granted privileges to upload, delete, recover, and rename files, provided that the respective files exist on the server. Additionally, users have the capability to upload a profile picture, which will be stored on the server and subsequently displayed on the dashboard page. Furthermore, users retain the ability to update their personal information as desired, with these updates reflected on the profile page for reference.

4.6 Design
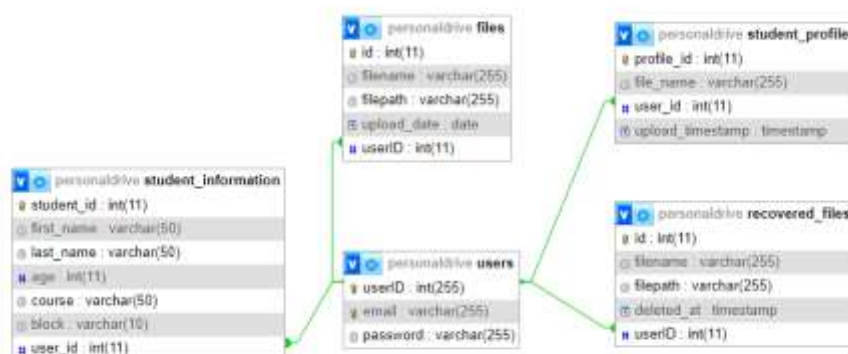
4.6.1 Data Flow Diagram

FILE MANAGEMENT AND STORING SYSTEM - DATA FLOW DIAGRAM
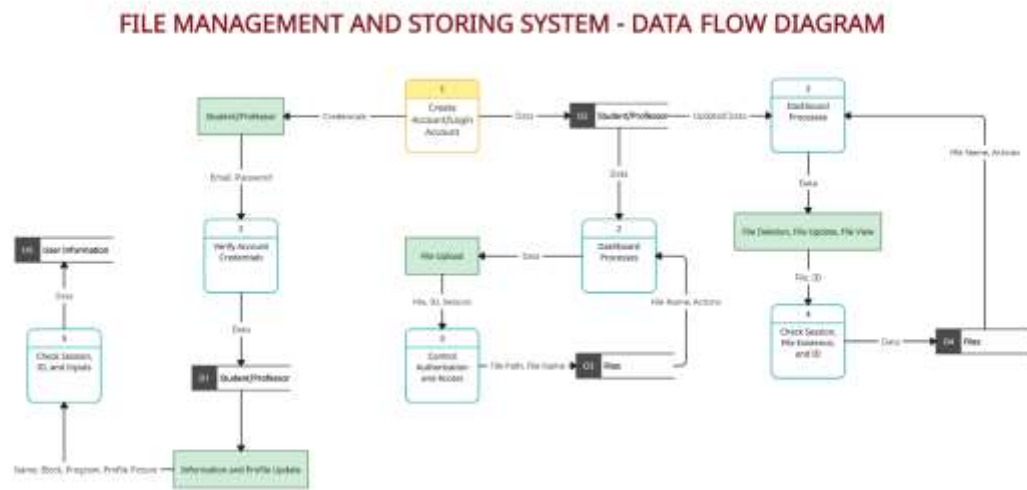
The data the users pass will go through several process. This process makes up the entirety of the user-system application. These processes include data storage and data passing.

4.6.2 Entity Relationship Diagram

Diagram 1 – XAMPP Designer

Diagram 2

FMSS - ENTITY RELATIONSHIP DIAGRAM
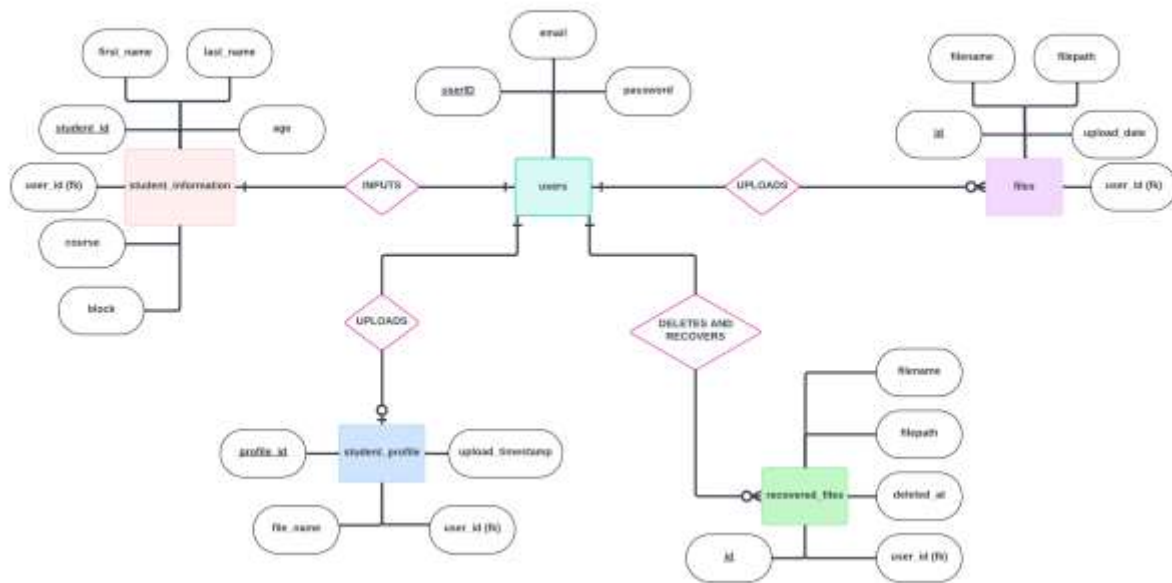
Within FMSS, users are empowered to upload multiple files simultaneously, affording efficiency in file management tasks. Moreover, users retain the flexibility to delete or recover either individual files or multiple files concurrently, offering tailored control over their stored data. Additionally, users have the option to upload a profile picture to personalize their account interface. Furthermore, users can easily edit their personal information as needed, ensuring accurate and up-to-date details are maintained within the system.

4.6.3 User Interface

4.6.3.1 Registration Form

4.6.3.2 Login Form

4.6.3.3 Dashboard

Student Personal Drive

Uploaded Files:

Filename	Upload Date	Actions
Template - Copy.docx	2024-02-28	⬇ 📄 ✕ ▷
Template - Section 2.docx	2024-03-28	⬇ 📄 ✕ ▷

4.6.3.4 Profile Page

Student Personal Drive

You may upload a profile picture using the buttons below

Choose File   Upload

User Information

First Name	Spongebob
Last Name	Squarepants
Age	18
Course	BSIT
Block	C

Edit Profile

4.6.3.4.1 Profile Page – Edit Profile

4.6.3.5 Recovered Files

4.6.3.6 Sidebar and Logout