



الجامعة الإسلامية العالمية شيتاغونغ
International Islamic University Chittagong



Department of Computer Science & Engineering

Project Report

ON

CSE-3532

TOOLS AND TECHNOLOGIES FOR INTERNET PROGRAMMING

TOPIC — Document Management System

SUBMITTED TO —

SARA KARIM

Adjunct Lecturer

Dept. of CSE, IIUC

SUBMITTED BY—

- **Nuzhat Tabassum (C231543)**
- **Ema Binte Amir (C231513)**

DATE OF SUBMISSION: 02-05-2025

1. Introduction:

The project is a web-based mini DBMS that allows users to manage personal notes and files securely. It includes features like user authentication, real-time search, file upload/preview, and a visual dashboard for data summary.

2. Why we choose this project:

The main goal of this project is to design and implement a user-friendly, secure web application that allows users to manage personal notes and uploaded files efficiently. This application simulates the functionalities of a lightweight Database Management System (DBMS) with an interactive interface.

3. Technology Stack:

- **Frontend:**
 - HTML5 ,Bootstrap 5 (for responsive design and UI components)
 - JavaScript (with Chart.js for data visualization)
 - **Backend:**
 - Python 3
 - Flask (micro web framework)
 - **Database:**
 - SQLite (via SQLAlchemy ORM)
-

4. Key Features:

- **User Authentication:**
 - Secure login, logout, signup,password change with hash-based verification
- **Notes Management:**
 - Add, view, edit, delete text-based notes and Real-time note search
- **File Management:**
 - Upload multiple file types: PDF, DOCX, JPG, PNG, etc.
 - Preview images and PDF files within browser
 - File download and delete functionality
 - Search uploaded files in real-time
- **Dashboard Summary:**
 - Display total count of notes and uploads
 - Visual comparison via interactive pie chart using Chart.js

- **Dark Mode Support:**
 - Toggle switch for light/dark theme
 - **Profile Management:**
 - View user info (ID, name, email), Password update feature
-

5.Team Contribution:

- **[Nuzhat]:** Frontend development, UI design, dashboard (Chart.js) and note integration.
- **[Ema]:** Backend development, authentication, database setup and secure file handling.