

# **Project Report**

**ON**

**CSE-3532**

Tools AND technologies for internet programming

topic — Document Management System

Submitted to —

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***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.