**Project Progress Report**

**Student Information:**

* **Student Name:** Sumit Sharma
* **Class:** MCA - Masters of Computer Application
* **Enrolment Number:**
* **Scholar ID:**

**Project Details:**

* **Project Name:** NoteVault
* **Date of Submission:**

**Summary:**

**NoteVault** is a full-stack web application designed to serve as a centralized platform for students to **upload**, **share**, and **access academic notes**. It features a dual-role system with distinct functionalities for **admins** and **regular users**.

Users can register, update their profiles, and upload notes with detailed metadata such as **title**, **description**, **college**, **course**, and **semester**. A personalized **dashboard** provides users with stats like **note count**, **watch/download count**, and potential **earnings**.

Admins, with a static login, can access an **admin panel** to view all users, manage uploaded notes, and monitor platform-wide stats. A **public API** allows all visitors to access uploaded notes without needing to log in, promoting open knowledge sharing.

Built using **Node.js**, **Express.js**, **MongoDB**, and a **React frontend**, NoteVault emphasizes simplicity, scalability, and academic collaboration — making it a practical tool for students and institutions alike.

**Future Scope:**

 **Monetization & Rewards System**

* Introduce a credit or points-based system to reward users for popular uploads (based on watch/download count).
* Allow redemption via vouchers, cash, or academic perks.

 **Advanced Search & Filters**

* Implement full-text search, filters by subject tags, keywords, and college-specific content to enhance accessibility.

 **AI-Powered Recommendations**

* Use machine learning to suggest notes to users based on their course, semester, and past activity.

 **Note Rating & Review System**

* Allow users to rate and review uploaded notes, helping maintain quality and trust.

 **Download Tracking & Analytics**

* Provide detailed analytics to users about who viewed/downloaded their notes and from which region.

 **Mobile App Development**

* Build Android/iOS apps for wider accessibility, with push notifications for new uploads and stats.

 **Collaboration & Discussion Forum**

* Add community features like discussion forums or study groups for academic collaboration.

 **Admin Moderation Tools**

* Introduce moderation tools to flag/report inappropriate content and manage disputes.

**Unique Factor:**

### 🔹 **1. Dual Role System (Admin + User)**

* **Admin Panel:**
  + Static login with full control over users and uploaded notes.
  + Can view stats like total users and notes.
  + Manages the platform without needing dynamic signup.
* **User Panel:**
  + Users can register and manage their profile (username, password, photo).
  + Upload academic notes with metadata (college, course, semester).
  + View their personal dashboard with **note count**, **watch count**, and **estimated earnings** (incentive-driven).

### 🔹 **2. Publicly Accessible Notes Repository**

* No login required to access all uploaded notes (via a public API).
* Acts like a mini academic resource hub or a digital library.
* Promotes knowledge sharing without restrictions.

### 🔹 **3. Incentive Tracking via Watch Count**

* Each note includes a **watch/download count**, helping track popularity.
* Users are motivated to upload quality content to increase visibility and rewards (if implemented).

### 🔹 **4. Clean Role-based Frontend UI**

* Navbar and components dynamically change based on role (admin or user).
* Smooth UX across mobile and desktop with a responsive design.

**Signatures:**

**Project Mentor:** **Head of Department:** **Head of Institute:**

Prof. Abhishek Barche Dr. Sanjay Dubey Dr. Rashmi Yadav