BRAC UNIVERSITY

Inspiring Excellence

CSE471: System Analysis and Design
Assignment on Functional Requirements
Proposed Project Title: Share Notes (Student Notes Sharing Platform)

Group No: 02, CSE471 Lab Section: 08, Spring 2025	
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Tech Stack:

- Language: Python (Backend)
- Framework: Flask (Backend)
- Language: Javascript (Frontend)
- Framework: React (Frontend)
- Styling: Tailwind CSS
- Database: Pocket Base (SQLite)
- ORM: Alchemy (Can Change)
- Deployment: Vercel (Can Change)

Functional requirements:

Module 1: User Management

1. [Member 1] Users can register, log in, log out, and change passwords.
2. [Member 2] Displays user information, including name, email, role & courses enrolled in. Also, shows a dashboard of contributions. Could have metrics or rankings.
3. [Member 3] Users can request higher-level roles (e.g., General to Moderator), and higher-level users can approve/reject requests.
4. [Member 3] Higher-level users (Moderator, Admin) can ban or delete users.

Module 2: Notes

1. [Member 1] Users can upload notes to specific courses on the platform. There can be a collection of different notes from different people and people can upvote or downvote to rank their helpfulness.
2. Notes will have tagged categories on the contained contents for organization and study helpfulness.
3. [Member 2] Notes require approval from higher-level users (Moderators, Admins) to be published.
4. [Member 2] Users can message each other to share feedback or discuss notes.
5. Courses can have different threads on different topics. Users can create threads on different topics or issues and ask people to help explain in real-time.

Module 3: External API - AI Chatbot (Study Helper)

1. [Member 1] Provides instant answers to student questions and explains topics.
2. [Member 1] Recommends relevant notes based on the user's queries or study topics.
3. [Member 2] Recommends study paths, topics, and resources for better learning.
4. [Member 3] Admins can view chatbot usage data, including popular topics and user feedback.
5. Generate appropriate topics and keywords for notes.

*** These requirements can be changed