

## **Study Group Finder**

### **Overview**

Develop a Study Group Finder application using the MERN (MongoDB, Express, React, Node.js) stack that supports user and admin roles. The application will facilitate finding, joining, and managing study groups.

### **Product Functions**

#### **User Groups**

##### **Users:**

- Create, view, join, and leave study groups.
- Post messages and materials in groups.
- Create, edit, and read their profile page after logging in.

##### **Admin:**

- Control the users signed into the website.
- Delete or block user access.
- Separate login details.
- List and manage study groups.
- Approve or reject user-created groups.

### **Functional Requirements**

#### **Login Module**

- Users and admin can log in with their credentials.
- Admin credentials are predefined.

#### **Registration Module**

- Users can sign up with the following details:
  - Name
  - Email ID
  - Contact number
  - Password
  - Terms and conditions agreement

#### **Study Group Management**

- Display study group lists with details.
- Create, read, update, and delete study groups.

- Join and leave study groups.
- Post messages and materials in groups.

## **Notifications**

- Admin can send email notifications to users about group updates.

## **Pages Required**

1. **Login/Sign Up**
  - Sign Up Page for Users: Collects personal details and terms agreement.
  - Login Page: Redirects to the home page upon successful login.
2. **Home Page**
  - Lists available study groups (card or table format).
  - Each group is clickable and redirects to a single page with group details.
3. **Group Details Page**
  - Displays group details including title, subject, description, and members.
  - Displays group messages and materials.
4. **User Profile Page**
  - Users can update their profile details.
  - Displays the user's study groups and posts.
5. **Group Creation Page**
  - Users can create new study groups for approval.
6. **Admin Dashboard**
  - Lists all study groups and their statuses.
  - Admin can approve, update, or delete groups.
  - View and edit user profiles.

## **General Requirements**

- Every page should have a navbar with a logo and signin/logout button based on logic.
- Navbar should contain navigation links to main pages such as home, login/logout, etc.