# **ProjectCollabHub - Empowering Student Collaboration**

Supervising final-year student projects in education requires seamless communication and collaboration within project groups, as well as with the supervisor. However, the current communication channels are disjointed, providing limited visibility into the project team's communication. To address this challenge, we are developing ProjectCollabHub, a platform specifically designed for final-year students. This platform will provide a user-friendly and secure space for efficient file sharing and communication between team members and the supervisor. Our goal is to boost overall success, transparency, and collaboration in final-year projects.

There must be three types of users that can log into the website.

1. Admin
2. Instructors
3. Students

**Admin Role:**

* The admin can log in to the platform using a username and password.
* The dashboard allows the admin to add the project list for “Instructors and students to view”.
* The admin can create/update/delete groups with unique group names.
* Admin can link/assign the projects to the groups.
* The admin can assign students to the groups.
* The admin can add an instructor for each group.
* The admin will approve all the requests for joining the platform.
* The admin can remove a member from the platform.
* The admin can view the report on how many members are in each group, which project they are working and when was the last message sent to the group.
* The admin can write a message to each group, student, or admin.
* The admin can do the basic word search within all groups.

**Instructor Role:**

* Log in to the platform securely using your username and password as an instructor.
* Create, update, or delete groups for your class, and add or remove students from those groups.
* View and send messages to the groups where you are assigned by the admin, and access a list of both active and inactive group statuses.
* See all the member details within each group and flag a group as "at risk" if necessary.
* Use the basic word search feature to search for specific words within your groups.

**Student Role:**

* Register using their student id, full name, and a password (Note: Please do not use your actual password).
* View the groups they are members of.
* Send messages and share files within the group.
* Receive notifications of new messages in the group.
* Get notified if their group is flagged as "at risk."
* Use the basic word search feature to search for specific words within their groups.

**Other Requirements:**

* The website should be responsive and accessible for everyone.
* We want the color scheme to match the KOI logo.
* The design should be clean and easy to navigate.
* Some basic security measures need to be implemented to protect against common vulnerabilities.

**Technology Stack Requirement:**

* React
* Node.js
* Express
* MongoDb
* Choose any cloud platform for hosting