

Product requirements document

- ✓ A Product Requirements doc focuses on the users' idea of what the finished product should do.

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|---------------------|--------------------------------|
| College Connect App | |
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| Engineering Lead | Test User 1 |
| Designer | Test User 2 |
| Document Version | v1 |
| Created | 17 th October, 2023 |

Intro & Goals

We want to build this product (College onnect) for helping students in their academics. Current version (v1) is a MVP(minimum viable product) with basic and most useful features. In future versions, we will be adding more features such as adding assignments, following different topics etc.

- ✓ Minimum viable product
- ✓ Help Students in academics

Who's it For?

This application is for students, professors and subject matter experts from the city of a college for resolving doubts based on various academic subjects.

User Types/Personas

- **Student:** The primary user of the app. Students can post their doubts, answer other students' doubts, and participate in group discussions.

- **Faculty:** Faculties can answer students' doubts, participate in group discussions, and create and manage assignments.
- **Guest Faculty:** Subject matter experts from the city who can be invited to participate in group discussions and answer students' doubts.
- **Admin User:** App administrators who will manage users and content. Responsible for resolving disputes or inappropriate content.

App Functionalities/User Stories:

Every type of user should have a role assigned to them (authorization).

- **Student User Stories:**

- As a student, I want to login/signup to the app.
- As a student, I want to ask academic questions.
- As a student, I want to receive answers to my questions.
- As a student, I want to post answers on questions.
- As a student, I want to edit and delete my answers.
- As a student, I want to upvote different answers.
- As a student, I want to upload my image.
- As a student, I want to save the questions to answer them later.
- As a student, I want to follow specific teachers. (good to have)

- **Faculty User Stories:**

- As a faculty, I want to login/signup to the app.
- As a faculty, I want to save the questions to answer them later.
- As a faculty member, I want to answer students' questions.
- As a faculty member, I want to edit and delete my answers.
- As a faculty member, I want to upvote different answers.
- As a faculty member, I want to upload my image.
- As a faculty member, I want to post academic updates. (good to have)
- As a faculty member, I want to host virtual office hours. (good to have feature)

- **Guest Faculties: (Dont need to create Account)**

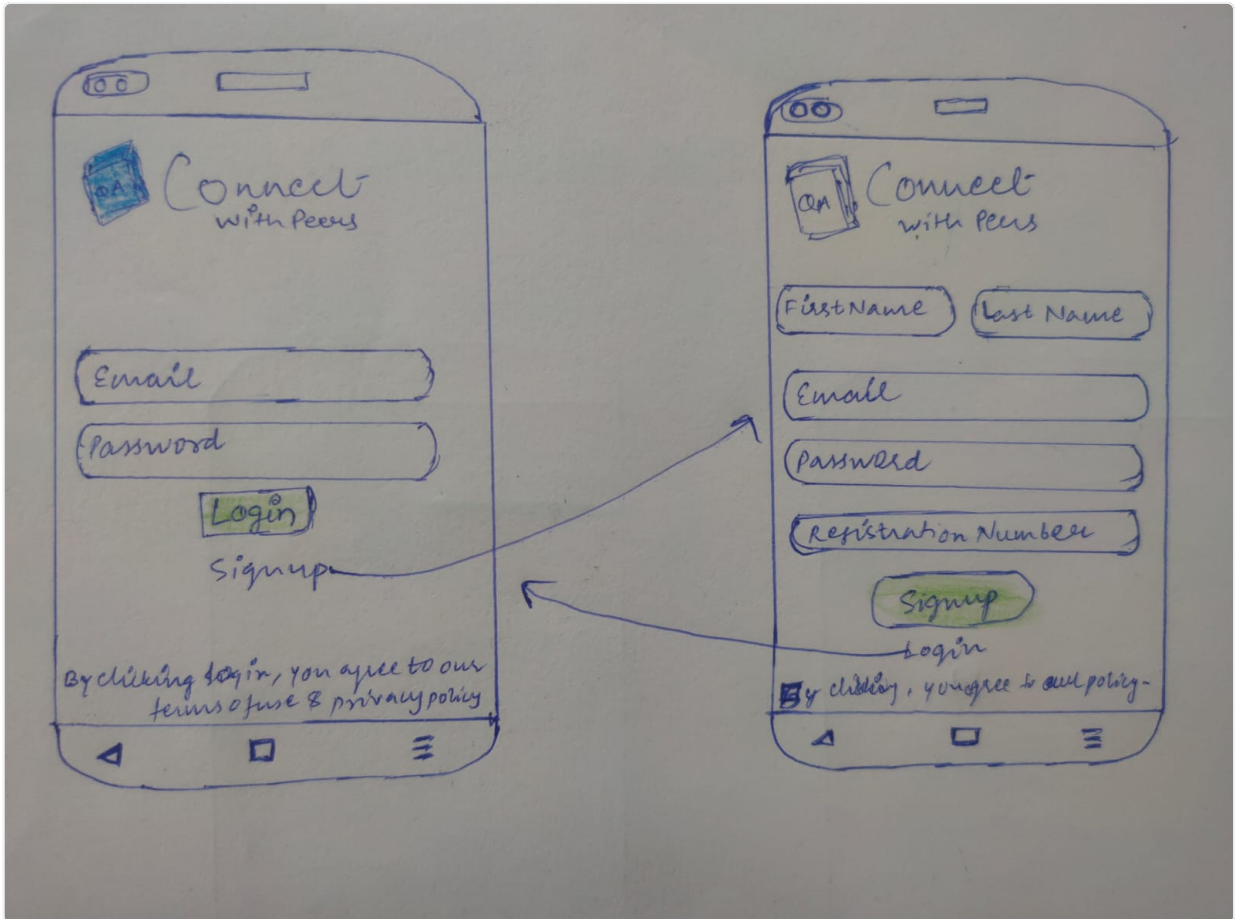
- As a guest faculty member, I want to answer students' questions.
- As a guest faculty member, I want to edit and delete my answers.
- As a guest faculty member, I want to upvote different answers.

- **Admin User Stories:**

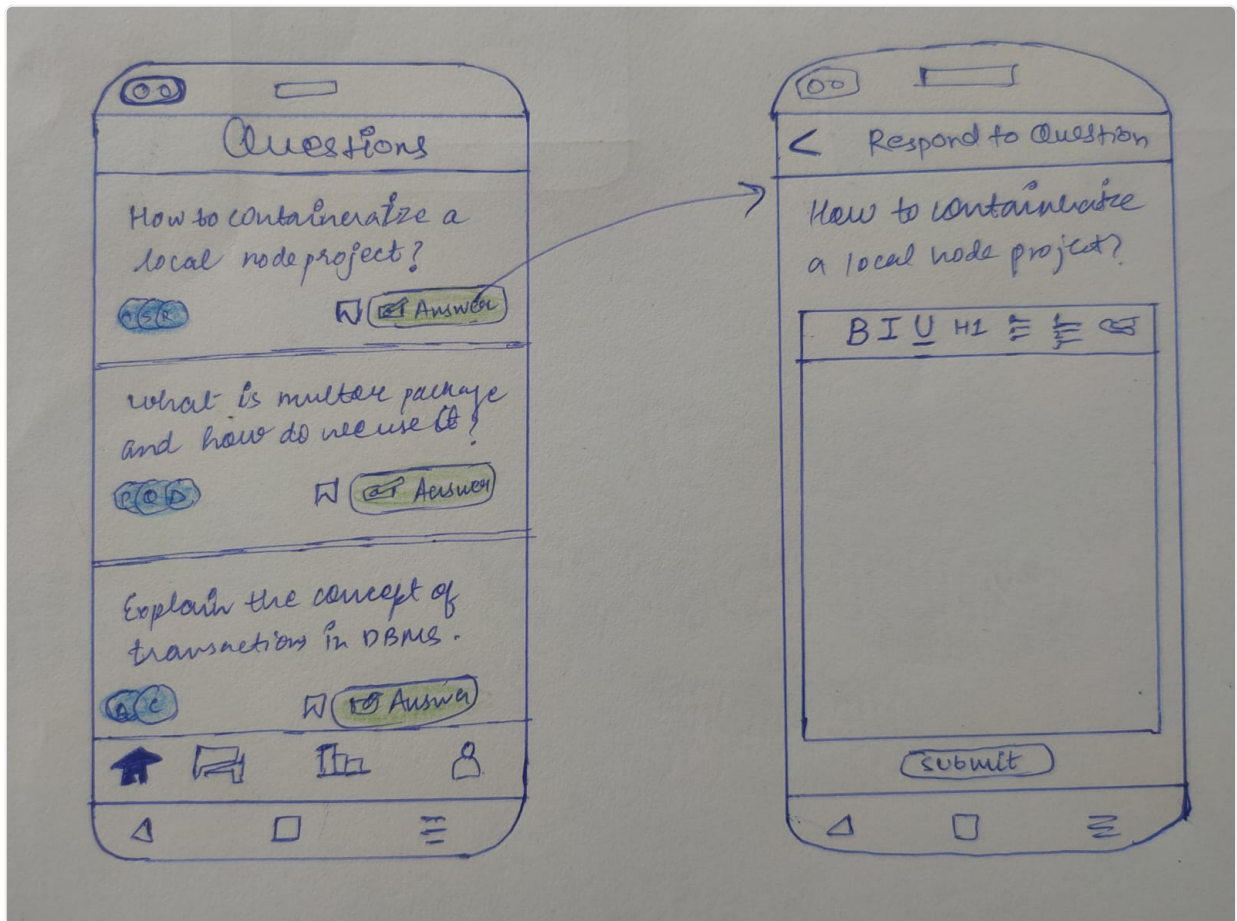
- As an admin, I want to review and moderate content.
- As an admin, I want to manage user accounts.

🎨 Hand Drawn Sketches

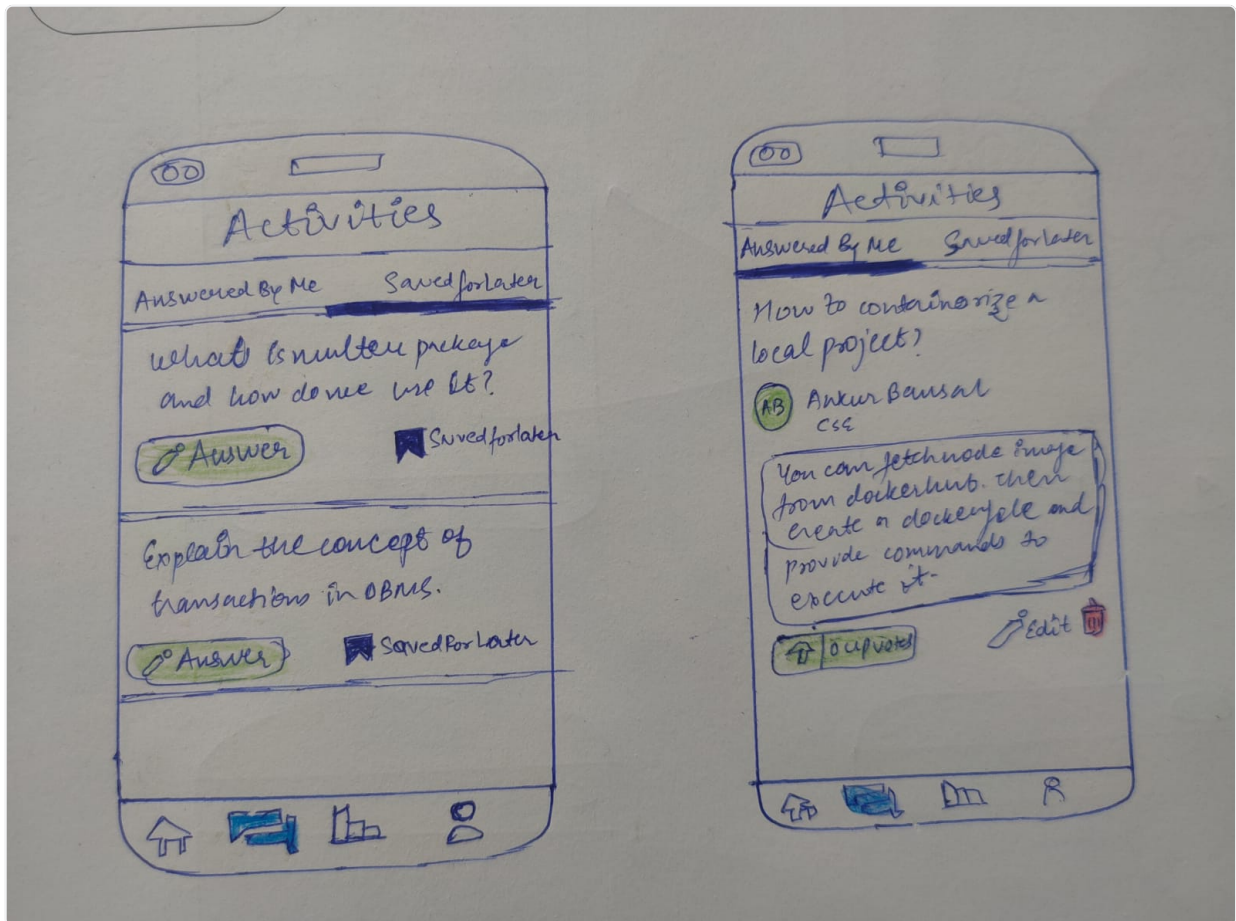
Note: These screens are according to the requirement of MVP. There can be multiple more screens as well. (For ex: A screen for particular question (opens up on clicking a question from feed) - showing all the answers to a particular question, different profile screen for teachers, etc.



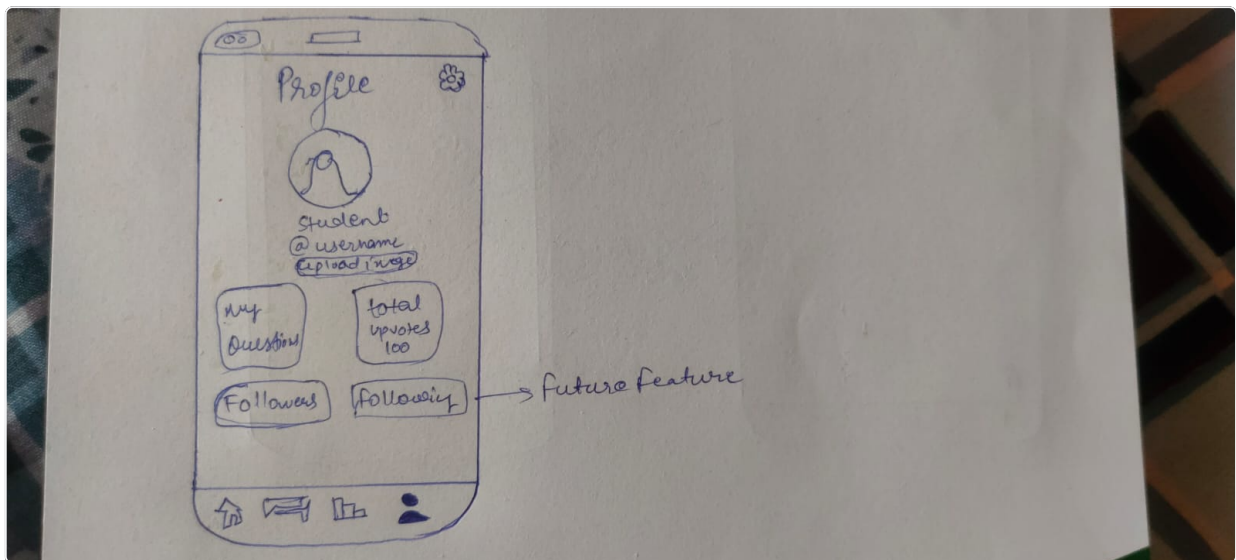
Login/Signup screens



Feed and write answer screens



My activities screens



Profile screen

💡 Additional Details for Developer

- Techstack to be used will be a combined decision but as we are not doing any CPU heavy task, My suggestion would be to go with javascript based frameworks.
- Backend : NodeJS, expressJS. For user authentication, We can use bcrypt and JWT.

- Frontend : For cross-functioning, we can use React Native.
- Database : We should use Mysql with sequelize as the ORM for faster querying.
- Version Control : Git
- File structure : Should follow industry standard structure.
 1. Controllers
 2. Routes
 3. Service (business logic)
 4. Repository (Database interaction)
 5. Models (table schemas)
 6. Migrations
 7. Seeders (to bulk insert data)
 8. Middlewares (validations)
 9. Utils (contains all the utility functions)
 10. Config (All configurations ex. env configs)
- Initial set of API's :
 1. ask question (POST)
 2. write answer (POST)
 3. Fetch feed (GET)
 4. Save question for later (POST)
 5. Edit And Delete answers (PUT and DELETE)
 6. Signup/ Signin (POST)
 7. Uvpote answer (POST)
 8. Upload profile picture (POST) - using multer

Write Up for Times Of India

College Connect App: The Most Happening App of 2021

College Connect is a private social network for colleges (focused on academics), where it connects the students and faculties. Students can get their doubts clarified from anybody - it can be a student helping out with answers or even teachers. Guest faculties (subject matter experts from the city) can also be made a part of conversations and they can give solutions to doubts posted by students.

College Connect has become the most happening app of 2021 because it solves a real problem for students. Students often have doubts and questions about their studies, but they may not know who to ask. College Connect provides a platform where students can ask their doubts and get help from their classmates, teachers, and even subject matter experts.

College Connect is also a great way for students to learn from each other. Students can participate in group discussions on various topics, and they can also share their own knowledge and expertise with others.

College Connect has had a positive impact on students' academics. Students who use College Connect tend to have better grades and they are more likely to graduate from college. College Social Network has also helped students to develop their social skills and to build relationships with their classmates and teachers.

Here are some of the key features of College Connect :

- Students can post their doubts and questions, and they can get help from their classmates, and teachers.
- Students can participate in group discussions on various topics.
- Faculties can answer students' doubts and questions.

College Connect is a great resource for students who are serious about their academics. We will keep adding useful features to the app so that our students can get maximum benefits from it.