PROJECT PROPOSAL

ON

Real Time Chat App

SUBMITTED TO

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Submitted To:
Mr. Rahul

Submitted By:
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Sachin Kumar (2210992204)
Sarbraj Singh(2210992258)

Annexure I (For Project Proposal for FSE)

1. **Project Statement:** In today's fast-paced digital world, seamless and instant communication is essential for both personal and professional interactions. However, many existing chat applications suffer from latency issues, lack of security, limited scalability, and poor user experience. Additionally, some platforms fail to provide real-time updates, efficient group management, and media sharing capabilities.

2. **Approximate duration (in hours) to complete the project:** Approx 400 hours. (80hrs/head)

3. **Proposed Project In charge**: Saikat Hazra (2210992216)

4. **Team Members along with roll no's:**
   - a. Saikat Hazra(2210992216)
   - b. Sachidanand Gupta (2210992202)
   - c. Sachin Kumar (2210992204)
   - d. Sarbraj Singh (2210992258)

5. **Check Points:**

   a. Does the project statement result in a product? If yes, what type of product?

   -- Yes, the project will result in a real-time chat application that serves as a communication platform for users. It can be used for personal, professional, or business purposes, enabling instant messaging, group chats, and media sharing. It can also be adapted for **B2C or B2B use cases**, such as customer support or team collaboration

   b. If it is a product, can a prototype be made, if not, what is it, which we can produce that our teachers can evaluate?

   -- Yes, a prototype of the website can be made for evaluation by teachers.

   c. Does the project statement use multiple concepts to achieve the outcome? (yes/no)

   --Yes

   d. Does it have enough for our team members to do sufficient amount of work? (yes / no)

   --Yes

6. **Technical Nodes (add more rows in the table below, if required)**

Subject / Area / Topic	Technical Nodes
Backend	Expressjs, Nodejs
Frontend	HTML, CSS, JavaScript, REACT JS
User-Authentication	Json web tokens-(JWT)
Database Management	MongoDB , MySql
Version Control	Git and GitHub
Deployment	Amazon Web Services(AWS)

7. Prerequisites (in terms of knowledge, concepts and material) for doing the Project:
- Logic Building, Problem-solving skills, desktops/Laptops with good internet connectivity and the technologies required(mentioned above).

8. Material that may be required to make the project and where it might be available

1. Desktop/Laptop: Required for coding, design, and testing

2. Internet connectivity

3. MERN

4. Online resources

9. What could be the total cost of the project?
$6000 (400hrs * $15)

10. Resources available to us:

1. Wikipedia

2. StackOverflow and many other online open sources.

3. Internet connectivity with desktops
4. MONGO DB
5. NODE JS
6. VS CODE
7. MDN REFERENCE
8. GEEKS FOR GEEKS
9. YOUTUBE