
Institute of Engineering & Technology



FULLSTACK PROJECT (2021-2022)

Real Time Chat Application Synopsis

Submitted By :-

Naman Gupta (181500410)

Kush Mittal(181500342)

Tarun(181500756)

Submitted to:-

Mr. Pankaj Kapoor

Declaration

We hereby declare that the project work entitled “**Real Time Chat Application**”, submitted to Department of Computer Science & Engineering, GLA University, Mathura in mentorship of Mr. Pankaj Kapoor for the session 2021-2022.

Naman Gupta(181500410)

Kush Mittal(181500342)

Tarun(181500756)

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1. Introduction

Communication is a mean for people to exchange messages. It has started since the beginning of human creation. Distant communication began as early as 1800 century with the introduction of television, telegraph and then telephony. Interestingly enough, telephone communication stands out as the fastest growing technology, from fixed line to mobile wireless, from voice call to data transfer. The emergence of computer network and telecommunication technologies bears the same objective that is to allow people to communicate. All this while, much efforts has been drawn towards consolidating the device into one and therefore indiscriminate the services. Chatting is a method of using technology to bring people and ideas together despite of the geographical barriers.

The technology has been available for years but the acceptance it was quit recent. Our project is an example of a chat server. It is made up of applications the client application which runs on the users mobile and server application which runs on any pc on the network. To start chatting our client should get connected to server where they can do Group and private chatting.

2. Software Requirements: -

- a) HTML (front-end)
- b) CSS
- c) reactjs
- d) GitHub
- e) VScode
- f) Web Browser (Google Chrome)
- g) Operating System (Windows, Linux, MacOS)

3. Hardware Requirements: -

- a) Minimum Marshmallow version 7.0 (for android)
- b) Window 8 or more
- c) Hard-Disk 250GB or more
- d) RAM 4GB or more
- e) Internet Connection

4.1 Frontend

Reactjs is library of JavaScript. It is open source, front-end, for building user interface. It is maintained by Facebook and a community of individual developers and companies. React can be used as a base in the development of single-page or mobile applications.

4.2 Backend

The backend lies ChatEngine that is an object-oriented event emitter based framework for building chat applications in Javascript. It reduces the time to build chat applications drastically and provides essential components like typing indicators, online presence monitoring and message history out of the box.

5. IDEA

In today's World Most of us are familiar with the use of real-time messaging applications, especially in mobile devices, in the form of Whatsapp, Facebook Messenger, and numerous other messaging applications.

However, real-time messaging is used not limited to purely messaging applications. We see real-time messaging features in on demand taxi apps, delivery apps, and collaborative platforms.

6. Objective

Communication is a mean for people to exchange messages. It has started since the beginning of human creation. Distant communication began as early as 1800 century with the introduction of television, telegraph and then telephony. Interestingly enough, telephone communication stands out as the fastest growing technology, from fixed line to mobile wireless, from voice call to data transfer. The emergence of computer network and telecommunication technologies bears the same objective that is to allow people to communicate . All this while, much efforts has been drawn towards consolidating the device into one and therefore indiscriminate the

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Availability

This website works for all Smartphones and PC.

References

- <https://www.beta-labs.in/>
- <https://www.wikipedia.org>
- <https://www.w3schools.com>
- <https://www.getbootstrap.com>
- <https://reactjs.org/docs/>