Full Stack Project Synopsis

on

WhatsApp Clone by using ReactJS

Under the guidance of

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__Introduction__

__Title of the project__: WhatsApp Clone by using ReactJS

__Github link having project files:__

https://github.com/saurabhkhare123/fullstack-2

__The problem statement:__

Our team want to utilise this time in learning new skills and cutting-edge technologies in web development field. So, we come up with an idea to develop the web application by using react js, through which we will learn and amplify our knowledge and experience in web development. So, we decide to create the WhatsApp clone by using react js and then we will deploy our web application on the Firebase platform.

__Objective of the project:__

The main objective behind this project is to learn new skills and cutting-edge technologies in web development field. In this project, we have used the concepts like react router, react context API, google authentication, firebase firestore realtime database and we have deployed this web application on the Firebase platform.

Methodology:

In this project, we will create a similar type of a room based application which would have same type of functionalities as the real WhatsApp application provides to the real world, with the help of react and then we will deploy this application on the firebase.The goal of this project is to learning new skills and cutting-edge technologies in web development field. Our room-based web application will have various features like - We can add or delete room, we can update the user profile: name, and photo, we can also search the rooms and messages of different persons. This project is developed by using various technologies like react, react router, firebase realtime database, material UI, google authentication and deploy this web app by using Firebase.

Technologies Used:

● **React:**

React.js is an open-source JavaScript library that is used for building user interfaces. It is used for handling the view layer for web and mobile apps and also allows us to create reusable UI components so that the developers can create large web applications that can change data, without reloading the page. In React, instead of using regular JavaScript for templating, it uses JSX which has a simple JavaScript that allows HTML quoting and uses these HTML tag syntax to render subcomponents.

● **Firebase:**

It is a platform launched in 2011 by Firebase inc, and acquired by Google in 2014. It is categorized as a NoSQL database program, which stores data in JSON-like documents. It provides various key features like authentication, realtime database and hosting of web applications.

Requirements

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1. **<u>Technologies used:</u>**

- React
- Firebase

2. **<u>Hardware Requirements</u> (minimum):**

- 4 GB RAM
- Processor i3 (7th Gen)
- 20 GB HDD
- 1024 x 768 Display
- Keyboard
- Mouse

3. **<u>Software Requirements:</u>**

- **<u>System Software:</u>**

  - Operating System like Windows 10 or Ubuntu

- **<u>Application software:</u>**

  - Visual Studio Code

  - GitHub