

NATIONAL UNIVERSITY OF COMPUTER
AND EMERGING SCIENCES
Department of Computer Science
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COMPUTER NETWORKS
PROJECT PROPOSAL

**“CHAT MESSENGER WEB APP USING
REACT AND FIREBASE”**

GROUP MEMBERS

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Introduction:

The main idea of this project is that in this modern era people need to have a medium where they can connect with each other on a click. This chat messenger web application would enable users to communicate with each other easily.

Features in our website include user Registering their profile and Login of the user after entering their details. We would be using the API of Gmail in React and firebase to implement Login and Registration. After the user has registered successfully, they would be able to contact or message anyone using their username. This would enable users to communicate easily and efficiently. Frequently contacted persons would also be marked as favorites.

We will be using the Waterfall method for developing our application.

Functionality::

1. Real-time messaging: A web chat app should allow users to send and receive messages in real-time, without any significant delay. This ensures that users can have fluid conversations with each other.
2. Emoji and GIF support: Chatting can be more engaging with the help of emojis and GIFs. A good web chat app should allow users to easily add these elements to their messages.
3. File sharing: In a web chat app, users should be able to share files with each other. This can include documents, images, videos, and other types of files.
4. Message history: Users should be able to view their message history and access previous conversations. This feature can be useful for keeping track of important information or reviewing past discussions.
5. User profiles: A web chat app could allow users to create and customize their profiles. This can include adding a profile picture, setting a status message, and displaying other information about themselves. This can make it easier for users to identify each other and personalize their interactions.

Technology:

In our project we would be creating a Web Application using React which is a pure JavaScript framework with Firebase as our Database.

References:

1. Documentation of React provided by its owner.
2. Documentation of Firebase
3. Youtube

