

Project Requirement and Specification

On

GROUP-CHAT WEB APPLICATION

(CSE IV Semester Mini Project)

2021–2022



Submitted To:

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Session: 2021-2022

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GRAPHIC ERA HILL UNIVERSITY, DEHRADUN
CERTIFICATE

Certified that Mr. Mohit Singh Dhami (Roll No: 2018496) has Developed Mini Project on “Group-Chat Web Application” for the CSE IV Semester Mini Lab Project in Graphic Era Hill University, Dehradun.

The Project Carried out by Student is their own work as best of my knowledge.

Date: 13th July 2022

Dr Ashok Kumar Sahoo

Class Co-Ordinator

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ACKNOWLEDGEMENT

We Would like to Express Our Gratitude to the Almighty Shiva Baba, The Most Beneficent and most Merciful, for completion of project.

We Wish to thank our parents for their continuing Support and Encouragement. We also wish to thank them for providing us with the opportunity to reach this far in our studies.

We would like to thank particularly our Project Co-Ordinator Dr Ashok Kumar Sahoo for his patience, support and encouragement throughout the completion of the project and having faith in us.

We also Acknowledge them who help us in developing the project.

At last, but not the least We Greatly indebted to all other persons who directly and indirectly helped us during this work.````

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CHAPTER 1

1.1 INTRODUCTION

A chat application makes it easy to communicate with people anywhere in the world by sending and receiving messages in real time. With a chat app, users are able to receive the same engaging and lively interactions through custom messaging features, just as they would in person.

Web 2.0 describes the current state of the internet, which has more user-generated content and usability for end-users compared to its earlier incarnation, Web 1.0. In general, Web 2.0 refers to the 21st-century Internet applications that have transformed the digital era in the aftermath of the dotcom bubble.

1.2 ABOUT PROJECT

As The Name Suggests it is a Group-Chat Web Application and Here we can Chat with anyone on the internet, We can also Share Files, Music, GIFs, Photos with each Other.

CHAPTER 2

2.1 HARDWARE REQUIREMENTS

1. Windows XP, Windows 7 (32/64 bit) or higher
2. Minimum 4 GB RAM and higher
3. 10 GB available space on the hard disk
4. Active internet connection minimum speed 512kbps and above.

2.2 SOFTWARE REQUIREMENTS

1. At least one Internet Browser e.g. Chrome, Firefox, Microsoft Edge etc.
2. Node.js
3. At least one installed code Editor to test and debug your code e.g. Atom, Sublime and Visual studio code

CHAPTER 3

3.1 FIREBASE

Firebase is a platform developed by Google for creating mobile and web applications. It was originally an independent company founded in 2011. In 2014, Google acquired the platform and it is now their flagship offering for app development

In Addition, Firebase also Provides Cloud Storage Features, In Our Project we have used Firebase Firestore as a Database to Store all Chats with Proper Timestamps

Plan Used: Spark Plan

Cost: 0 INR

3.2 UPLOAD.IO

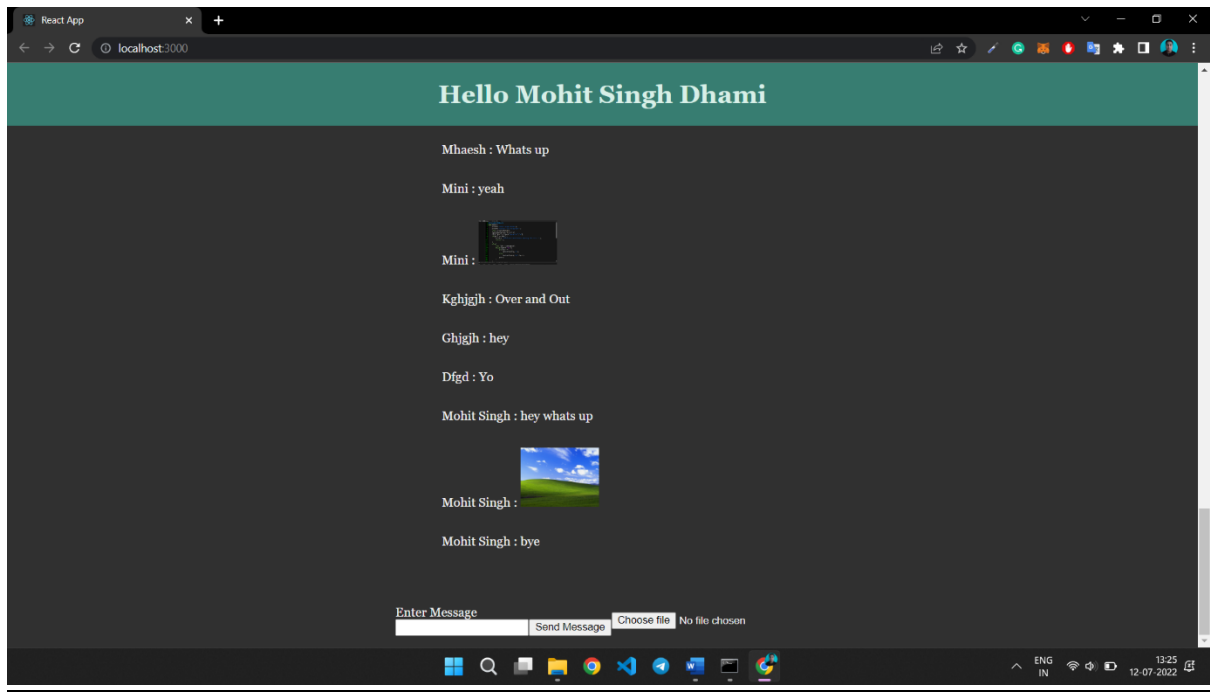
Upload.io Simplify file hosting & file uploads for your application, with scalable cloud storage, simple file upload SDKs, and a worldwide image CDN for fast image downloads.

Plan Used: Free API Service

Limit: 5 MB / File [Expires after 4 Hours]

CHAPTER 4

OUTPUT



CHAPTER 5

CONCLUSION

We Have successfully developed our Web Based Project that is Group-Chat Web Application.

In This, We have Created a Chat Interface using React.js Which is working very Accurately and Efficiently for Providing Chat Features Like Text Messages, Sharing Photos, GIFs, Music, Voice Recordings, Documents etc.

We have used Firebase Firestore Database to Store all The Chats of Users with Timestamps and have used Upload.io Free Hosting Service to Upload Files to Cloud.

Using The Cloud Infrastructure Features of Both We have Successfully Created This Application which works as Expected.

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