

# **WhatsApp Clone**

## **MINI PROJECT – II**

### **SYNOPSIS**



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## **Acknowledgement**

It gives us a great sense of pleasure to present the synopsis of the B.Tech mini project undertaken during B.Tech III Year. This project is going to be an acknowledgement to the inspiration, drive and technical assistance will be contributed to it by many individuals. We owe special debt of gratitude to Mr. Mayank saxena,(Technical Trainer,GLA University) , for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal and for his constant support and guidance to our work.

His sincerity, thoroughness and perseverance has been a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also taught us about the latest industry-oriented technologies. We also do not like miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind guidance and co-operation.

## **DECLARATION**

We hereby declare that the work in the project report entitle “Whatsapp Clone” GLA University,Mathura for the award of the degree of “B.Tech” is an authentic record of our work carried out during the Sixth semester of the Third year, under the supervision of Mr.Mayank Saxena(Technical trainer).The matter embodied in this project report has not been submitted elsewhere by anybody for the award of any other degree/diploma.

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## **ABSTRACT**

Whatsapp is one of the channels that are often used for communication. In the development of Whatsapp, it has made an application to facilitate users to access the technology on the computer desktop version. Furthermore, web Whatsapp is also a cross-platform application that are used to access the Whatsapp messenger on desktop computers. It is a web-based application that synchronizes with Whatsapp application on mobile devices. To synchronize, users required to scan the QR code that generated when opening the application web Whatsapp. In line with mobile platforms, the rising of web-based applications haves required a model for investigating criminal cases that utilizing Whatsapp on web application. The unavailability of model that used to investigate cases that utilize Whatsapp web could make it difficult for investigators. This paper gives a contribution to the preliminary model for investigating of crime cases related to the application web Whatsapp by studying the investigative process on the web browser application and network traffic.

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## **INTRODUCTION**

WhatsApp web is a desktop version of WhatsApp Messenger launched on 21 January 2015 for android, blackberry, and window phone users only. But later the company launched it for iOS and Nokia users as well . Now you can also operate your WhatsApp Messenger on your computer and laptop. This is a new feature of Whatsapp which has been made to use WhatsApp Messenger on Browser. There is no need to download the app. Moreover, it allows the user to send and receive messages directly from their browser. You can use WhatsApp web in the latest web browser and your mobile number should already be connected on your WhatsApp . It doesn't have any signup or sign in option. In short, it is a browser version of Messenger which allows you to connect through your laptop or desktop. If you are using WhatsApp from the laptop, then your mobile data will also be used. If you turn off the mobile data, then the connection of WhatsApp will also be closed .

WhatsApp launched a web-friendly version of its platform in 2015. With the help of the WhatsApp web, users have got the option to use the messaging service on their desktop as well. In this web version, almost all the features found on the smartphone app have been given. Although video and voice calling is not available on WhatsApp web. Many features found on the web version make your experience better on the app. Recently, WhatsApp has released Dark Theme for WhatsApp web and desktop apps. Earlier these features were limited to mobile apps only. Now after the introduction of this feature, users will not have to use any trick to enjoy the dark mode.

## OBJECTIVE

The objective of 'Whatsapp clone' is to provide better connectivity online among people located at different places/locations and to provide them the facility of instant messaging with high speed. The objective of this project is also to make it easy for people to share videos, pictures, documents, files among each other without taking a lot of data like other platforms. This app also provides the better connectivity of people through video calls and chats.

## MOTIVATION

Social networking sites that provides us connectivity are always high in demand and requirement among users. They are platforms which connect us with each other more efficiently in this world of constant online connectivity among people. These platform if used can also contribute towards educational purposes and team work to complete a task while located differently and remotely.

## **SOFTWARE AND HARDWARE REQUIREMENTS**

- React.js
- Express.js
- Node.js
- MongoDB
- Socket.io
- 295 Mb Ram
- Window 10

## **PROJECT DESCRIPTION**

This project will give you a hands on experience with the React library. Fullstack development currently has many different stacks and technologies to learn. It is very easy to get overwhelmed and get distracted. React is one of the most popularly used Frontend libraries used by companies such as Facebook, Pinterest, Uber, Instagram and many more. Beginner tutorials and mini projects are good for beginning but a full-fledged project can make you understand concepts with real-world applications.



## **Project Stages**

We can break down the project in the following stages:

1. Front-end
  - Sidebar Component
  - Chat Component
2. Back-end
  - Authentication
  - Database

## **WORKING**

A working web based WhatsApp Clone with a responsive UI for one to one communication. Including Google Auth to verify users and avoid spam. This project will give you a hands on experience with the React library. Fullstack development currently has many different stacks and technologies to learn. It is very easy to get overwhelmed and get distracted. React is one of the most popularly used Frontend libraries used by companies such as Facebook, Pinterest, Uber, Instagram and many more. Beginner tutorials and mini projects are good for beginning but a full-fledged project can make you understand concepts with real-world applications. You will learn not just about UI designing but also integrating it with the backend. You will be learning about :

- Basics of React
  - Functional Components
  - useState
  - useEffect
  - Props
- Context API
- Material- UI (Design)
- Firebase
  - Authentication (using Sign In With Google)
  - Mongo(DB)

## **IMPLEMENTATION**

Whatsapp Clone provides an in depth view of implementation on how to create a full-stack, mobile, hybrid web application from scratch. This application provides messaging facility with connectivity online.

This repository covers implementation of 3 major platform's mainly Android, IOS & Web using React Native & MERN stack

## **REFERENCES;**

- [Create react app](#)
- [npm install](#)
- [React components, JSX, props for beginners](#)
- [Material-UI](#)
- [Understanding React hooks](#)
- [How to use useState and useEffect with example](#)
- [React hooks API - useState, useEffect](#)

## **Websites:**

- <https://reactjs.org/>
- [www.google.com](http://www.google.com)
- <https://www.npmjs.com/package/@react-oauth/google>
- <https://mui.com/>
- [www.projectdeveloper.com](http://www.projectdeveloper.com)

## **Faculty Guidelines:**

Mr. Mayank Saxena(Technical Trainer,GLA University)

## **GitHub Repository link:**

- <https://github.com/PiyushSingh1010/WhatsappCLONE>