**DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE**

**DEPARTMENT OF COMPUTER APPLICATIONS**   
 **MCA BANGALORE -560078.**

**Master of Computer Applications**

**MCA 2022-2024**

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**SYNOPSIS ON**

**ChatterBox**

**Submitted by:**

**Name: Rounak Mukherjee**  
**Reg no: P03CJ22S126042**

**Under the guidance of**

**HOD, MCA Department**

**DSCASC**

**Introduction:**

In a world that's more connected than ever, communication is key. Enter ChatterBox, the ultimate chatting application designed to bring people together effortlessly. Whether you're catching up with friends, collaborating on projects, or meeting new people, ChatterBox has you covered with its intuitive interface and powerful features.   
Experience the future of communication with ChatterBox. Whether you're chatting with friends, organizing events, or collaborating with colleagues, ChatterBox is your go-to platform for seamless conversations. Download ChatterBox today and start connecting like never before.  
  
ChatterBox build on the top of MERN Technology, so say goodbye to laggy conversations. ChatterBox is built on a robust infrastructure, ensuring that your messages are delivered quickly and reliably.  
Also it uses Socket.IO for web sockets connection and first data transaction.  
Access your conversations from any device with ChatterBox multi-device sync feature. Start a conversation on your phone and seamlessly continue it on your laptop or tablet without missing a beat.

**Aim:**

To build a user-friendly website based on the principles of Connect with people all around the world, including multi-device support, security and authentication.   
It will provide the following services:

1. It is a free to use platform where users can log in and search people all around the world.  
2. Users can direct chat with each other with additional features like message notification, online notification etc.  
3. Users can create individual groups where main user play admin role and talk in a same space all togather.

**Software Requirements:**

**Operating System:** Windows 10 or above / Ios 9 or above / Ubuntu 22 or above

**Frontend**: HTML, CSS, Tailwind CSS, JavaScript, ReactJS

**Backend**: NodeJS, Express

**Database**: MongoDB

**WebSocket :** Socket IO Library

**Browser**: Chrome/ Firefox/ Opera/ Edge

**Version Control**: Git, Github / BitBucket / Gitlab

**Authentication**: JsonWebToken (JWT) Package

**Security**: Advance encryption algorithms, package like “Crypto-JS” for Password encryption   
**Modules:**

**The aforesaid platform is divided into the following modules:**

**Admin**  
 1. View All Users  
 2. Delete User Account  
 3. View All Groups  
 4. Delete All Gorups  
**User**  
1. Search Users  
 2. Send Message to Users  
 3. Create Group and Message there

**Conclusion:**

In conclusion, ChatterBox stands at the forefront of modern communication, offering a comprehensive suite of features designed to elevate your chatting experience. With its intuitive interface, robust security measures, and innovative advancements, ChatterBox redefines the way we connect and converse in the digital age.

From staying connected with friends and family to collaborating with colleagues and meeting new people, ChatterBox empowers users to communicate effortlessly and effectively. With features such as smart replies, voice messaging, and real-time translation, ChatterBox breaks down barriers and fosters meaningful connections across languages and borders.