SYNOPSIS ON CIAO

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<u>INTRODUCTION</u>

The main objective of the CIAO is to create a chat application which helps different users to communicate with each other through a server connected. This is a simple chat program with a server and can have many clients. The server needs to be started first and clients can be connected later. Simple Chat Room provides a bidirectional communication between client and server. It enables user to seamlessly communicate with each other. The user has an option to login to the chat room.

EXISTING SYSTEM

Earlier there was no mode of online communication between users. In big or small organizations communication between users posed a challenge. There was a requirement to record these communications and store the data for further evaluation. The idea is to automate the existing Simple Chat Room system and make the users to utilize the software so that their valuable information is stored digitally and can be retrieve for further management purposes. There was no online method of communicating to different users. There were many different interfaces available in the market but this method of using windows sockets to communicate between nodes would be fast and reliable.

USE OF THE PROJECT

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

FEASIBILITY OF PROJECT

This project can run on any device there is no such hard and strict requirement for the user . Only basic need required to run this application. In future it can more optimised and added more feature in it so that we can enjoy. all the facility for chatting like group chat feature.

FUNCTIONAL SPECIFICATION

The main key of this application is that we can communicate through each other by this application and it uses the node JS and express framework in backend and uses Socket.io library which enable bidirectional communication between the server and browser and it is encrypted with the aes256 encryption which provide the security to user on platform.

Software Specification:

- Technology used: Node JS, socket.io, React JS
- Language: HTML, Python
- Web browser: chrome, Firefox

Hardware Requirements:

- Processor   :i3
- Operating System   : Windows
- RAM   : 4GB
- Hardware Devices   : PC, Laptop
- Hard disk   :3GB

FUTURE SCOPE

 In future we can add the following things:-

- Extending this application by providing Authorisation service.
- Creating Database and maintaining users.
- Increasing the effectiveness of the application by providing Voice Chat.
- Extending it to Web Support.