



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MAJOR PROJECT - ACADEMIC YEAR 2023-2024

PROJECT TITLE: DESIGNING A WEB BASED CHAT INTERFACE SERVER

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**Abstract:**

A chat application is a type of software or technology that allows users to communicate with one other in real time over the internet. The article outlines an idea for a messaging software that emphasises security and usability above all else, with the goal of being adaptable across several platforms. The suggested method is starting with Node.js and building a server with the Express.js framework. Furthermore, the programme makes use of the Socket.io module to provide efficient user communication. MongoDB is used by the system for database administration. The solution uses bcrypt.js for password hashing and JSON Web Token to improve security measures.

Existing Model:

Mobile applications and standalone chatting applications have become increasingly popular in recent years. These software tools allow users to communicate with one another through text messages or voice calls, all within the convenience of their handheld devices. The rise of smartphones has contributed to the widespread use of mobile apps, as they provide easy access to various functionalities and services. Furthermore, standalone chatting applications offer a dedicated platform solely for communication purposes. They enable users to connect with friends, family, or colleagues and engage in seamless conversations.

Proposed Model:

A software application that operates on the internet, accessible through various platforms, designed to provide users with an easy-to-use interface. This application utilizes socket.io and express.js as server modules, while employing mongodb for the database management aspect. For enhanced security measures, this software incorporates methods such as jwt (JSON Web Tokens) and password hashing.

A web-based software is created using Node.js to convert large image formats into smaller ones. This software is user-friendly and faster than other Node.js modules. It has features like text messaging, expressive emojis and stickers, group chats, notifications, and security measures.

**Problem Statement:**

The challenge is to create a specialised mobile chat application for the web that can be used in real time to share data and facilitate quicker and simpler communication.

Domain :

Social Media

Technologies :

1. Ejs
2. CSS
3. Node js
4. Express Js
5. Socket.io
6. Mongoddb

Software Requirement:

VSCODE

Keywords:

Socket io, Node js ,Express js Web

References:

- [1]Croucher, T. H., & Wilson, M. (2012). Node: Up and Running. United States.
- [2]Sidik, B. (2011). JavaScript. Bandung: Informatika.
- [3]Kiessling, Manuel. 2012. The Node Beginner Book. lulu.com, United Stated.
- [4] Mardan, Azat. 2012. Practical Node.js: Building Real-World Scalable Web Apps. Appress.
- [5] Teixeira, Pedro. 2012. Professional Node.js: Building Javascript Based Scalable Software Kindle Edition. Wrox.
- [6] Teixeira, Pedro. 2012. Hands-on Node.js. Wrox.