

Real-Time Chat App – Internship Project Report

Submitted by: M. Madhan Kumar

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 **GitHub Repository**

 [View Project on GitHub – Real-Time Chat App Folder](#)

Objective

To design and develop a **modern, secure, and scalable real-time chat application** that supports interactive messaging, authentication, and a clean user interface. This app is built using a full-stack JavaScript architecture and is ideal for showcasing practical skills in real-time development, authentication, and responsive design.

Key Features

-  User Registration & JWT Authentication
 -  Real-Time Messaging using Socket.IO
 -  Live Online Users List
 -  MongoDB-Powered Chat History
 -  Secure REST API with Express.js
 -  Fully Responsive UI (Tailwind CSS & Animate.css)
 -  Designed for Scalability and Production Readiness
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Tech Stack

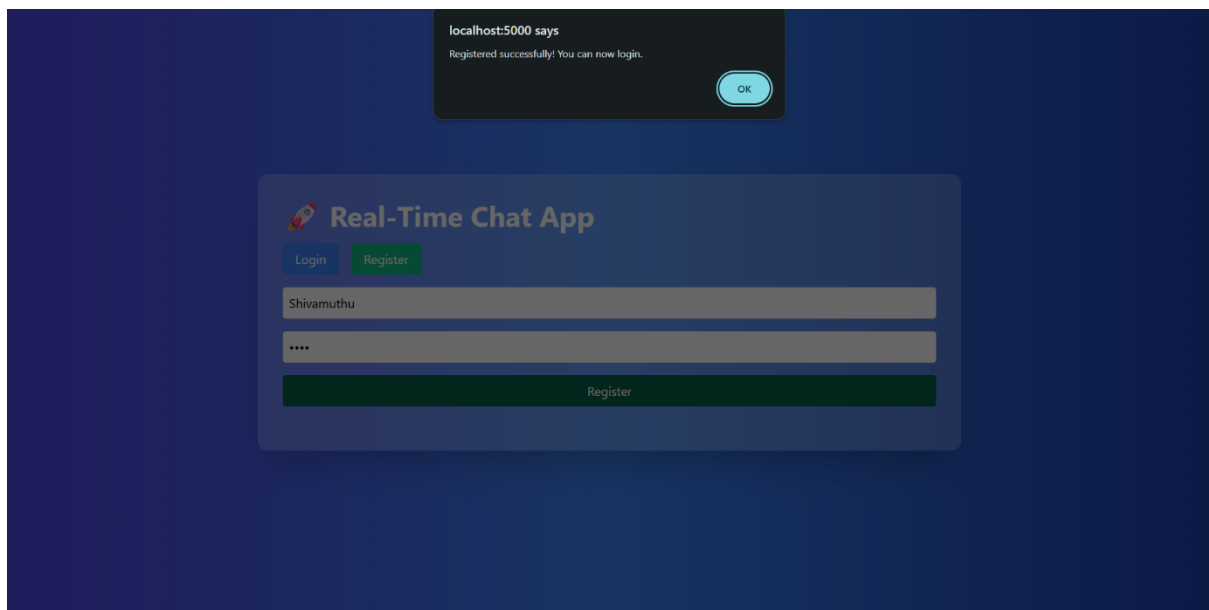
Layer	Technologies Used
Frontend	HTML, Tailwind CSS, Animate.css
Backend	Node.js, Express.js
Real-Time	Socket.IO
Database	MongoDB (with Mongoose)
Authentication	JSON Web Tokens (JWT)

Layer Technologies Used

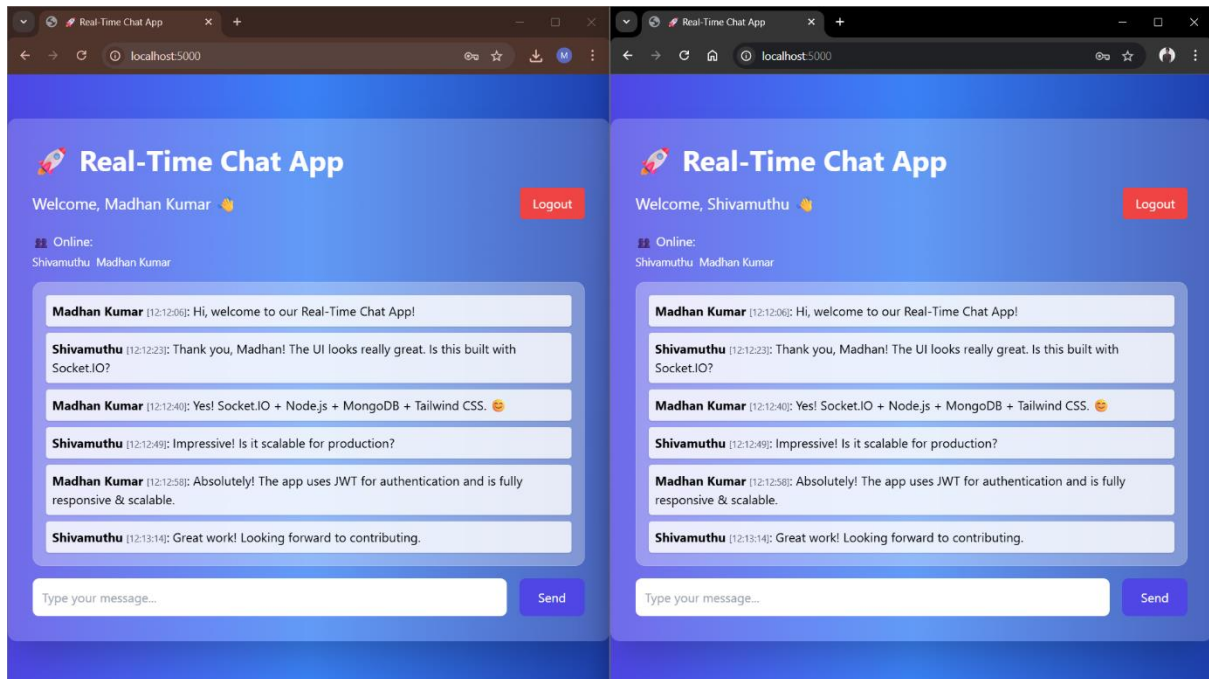
Version Control Git & GitHub

Screenshots

User Registration Screen:



Chat Interface:



GitHub Repository

 [View Project on GitHub](#)

Learning Outcomes

- Built real-time communication using **Socket.IO**
 - Implemented secure **JWT authentication**
 - Designed clean and responsive UI using **Tailwind CSS**
 - Gained experience with **MongoDB CRUD operations and API design**
 - Learned practical full-stack deployment and debugging
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