

# Introduction to Real-Time Chat Applications

Real-time chat applications are becoming increasingly popular for communication. They allow users to engage in instant messaging with others, enhancing collaboration and fostering connections.



# Problem statement

## Develop a Real-Time Chat Application

Application should support individual user and ensuring a smooth intuitive experience across the web.



# Abstract

This project aims to develop a real-time chat application that addresses the limitations of existing solutions. It leverages advanced technologies to provide instant communication, rich features, and enhanced security, ultimately improving the user experience.

# Existing solutions

1

## WhatsApp

A popular messaging app offering basic features but lacking real-time functionalities.

2

## Telegram

Known for its robust security features and group chat options but lacks real-time collaboration tools.

3

## Discord

A gaming-centric platform with real-time voice and text chat but limited customization options.

4

## Slack

A work-focused platform with real-time communication but often requires subscription fees.

# Our solutions

## Real-time Communication

Utilizing web sockets for instant message delivery, ensuring seamless and responsive communication between users.

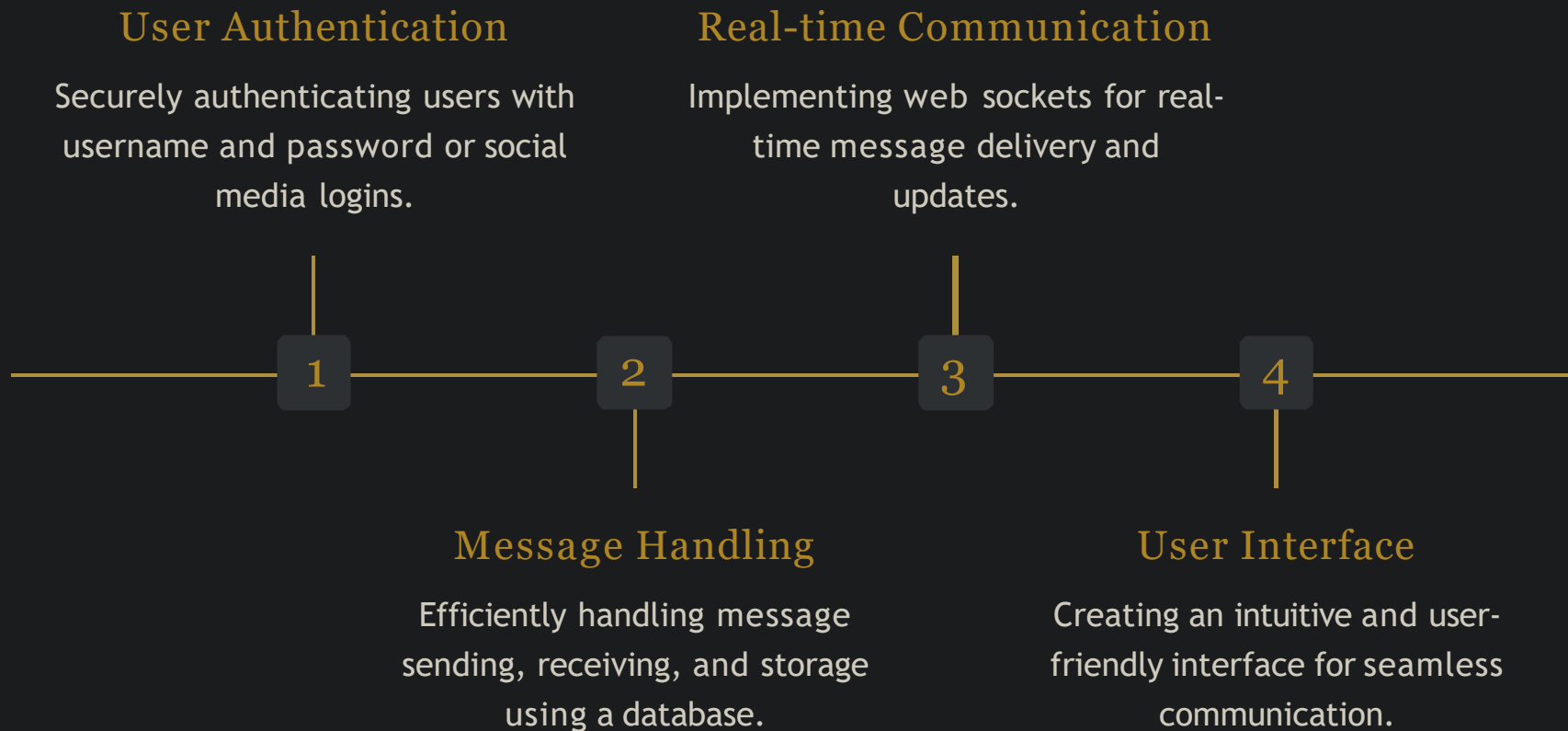
## Security Considerations

Users can sign up, log in and log out securely .

## Performance

Multiple users can access the application. Application Performance is optimized.

# Modules



# Tech stack

Frontend	React,Tailwind CSS
Backend	Node.js
Database	MongoDB
Real-time Communication	Socket.IO

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# Conclusion

The real-time chat application will provide a unique and valuable solution by offering instant communication, rich features, and enhanced security. It aims to bridge the gap between existing solutions and cater to the growing demand for real-time communication platforms.