

# GoTalk

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HACKTIVISTS

# PROJECT AIM

To develop a real-time chat web application with chat history retrieval using Go, WebSocket and Firebase majorly.

Our main aim is to Learn the Go language and Firebase and learn how to establish a client-server connection using WebSocket .

# Tech Stack

- **Frontend**

- HTML/CSS
- JavaScript
- Bootstrap/Tailwind CSS

- **Backend**

- Go (Golang)
- Gorilla WebSocket
- Firebase Realtime Database

# Tasks Completed Till Now

- **Initial Setup:**

- Set up Go development environment.
- Created basic Go app with WebSocket support.

- **Firebase Integration:**

- Set up Firebase Realtime Database for chat data storage.

# Tasks Completed Till Now (Contd.)

- **Bidirectional Communication:**

- Implemented WebSocket-based communication.
- Established real-time messaging.

- **Past Chat Retrieval:**

- Retrieved past chats from Firebase.
- Displaying past chats.

# Tasks Completed Till Now (Contd.)

- **Basic UI Development:**

- Added basic styles for chat interface.
- Created simple layout for message display.

# Tasks done after the first progress presentation (10.07.24)

**This was to be shown on Friday, 12.07.2024**

- **Rooms Functionality:**

- Implemented separate chat rooms.
- Created three distinct chat rooms.
- Ensured message isolation per room.

- **Enhanced UI:**

- Improved chat interface design.
- Added user-friendly styles.

# Tasks achieved during 13-15th July, 2024:

## Cookie Implementation:

- Implement cookies for session management.
- Ensure that on reloading the application doesn't prompt the user to re-enter the name.



# Tasks done after the last progress presentation (15.07.2024)

## UI Enhancement

- Integration of Tailwind CSS
- Added styles to the application using Tailwind CSS for a clean and responsive design.

# Tasks to Be Done Ahead

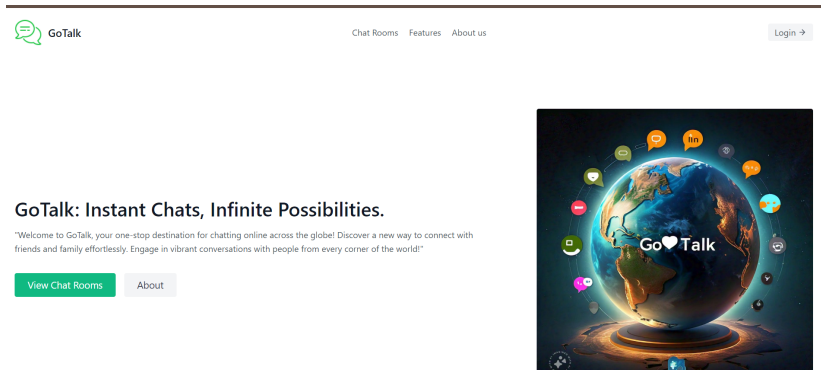
- **Authentication Integration**

- We are planning to implement firebase authentication into the web application.


- **User Interface Enhancements**

- Improved Styling: Continue refining the UI/UX to ensure a user-friendly experience.
- Adding time stamps and dates for msgs if time permits.

# Landing Page



# Login Page

 GoTalk

Chat RoomsFeaturesAbout us

Login →

## Sign up to GoTalk

Begin your chatting journey now! Get access to chat rooms containing diverse people; thereby helping you forge meaningful connections.


### Sign Up

Full Name

Email

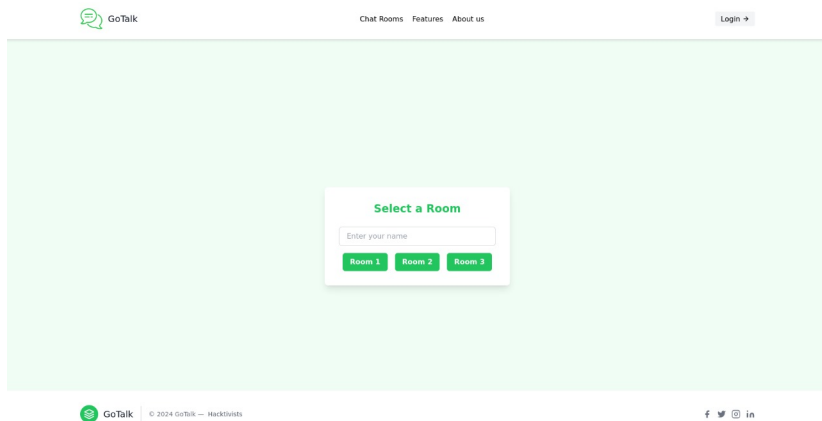
[Submit](#)

Redirects to chatroom page.

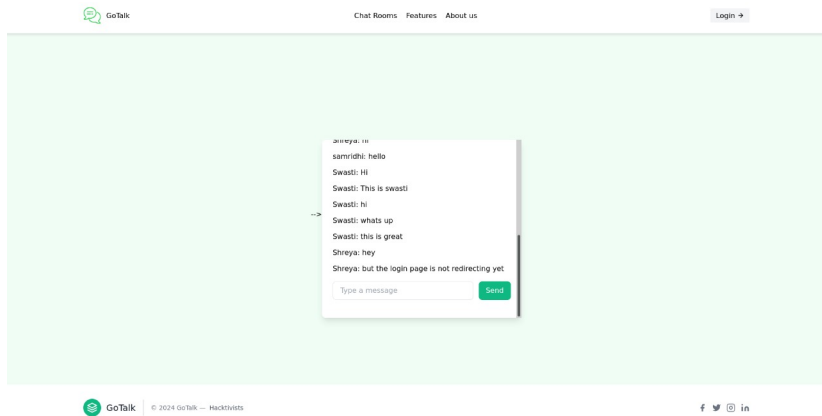
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# Rooms Functionality



# Chat



# Conclusion

- Significant progress has been made in styling, room functionality, and cookie management.
- The primary focus moving forward is resolving authentication issues and enhancing the application's overall functionality and user experience.

**Thank you for your attention!**

Suggestions and Feedback welcomed.