# 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 last 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.
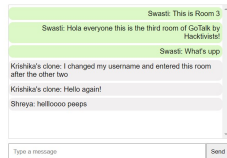
# Tasks to Be Done Ahead

- **Further UI Beautification:**
  - Add user login set-up using firebase again.
  - Enhance visual appeal of the interface.
  - Make the UI of the application attractive
  - (If time permits) Enable the user to view the times at which different users have sent their messages.

# Current Chat Interface

# Rooms Functionality



Swasti: This is Room 1

Swasti: Hola everyone this is the first room of GoTalk by Hacktivists!

Swasti: What's upp

Krishika: Hi people!

Shreya: hey

Swasti: yoo

Type a message | Send

Swasti: This is Room 2

Swasti: Hola everyone this is the second room of GoTalk by Hacktivists!

Swasti: What's upp

Krishika: Hello again people!

Shreya: hi guys

Type a message | Send

Swasti: This is Room 3

Swasti: Hola everyone this is the third room of GoTalk by Hacktivists!

Swasti: What's upp

Krishika's clone: I changed my username and entered this room after the other two

Krishika's clone: Hello again!

Shreya: helloooo peeps

Type a message | Send

# Conclusion

- Significant progress with real-time messaging, cookies and chat rooms.
- Upcoming enhancements for user experience.

**Thank you for your attention!**

Suggestions and Feedback welcomed.