GoTalk

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HACKTIVISTS

PROJECT AIM

To develop a real-time chat web application with bidirectional communication and 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.
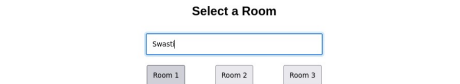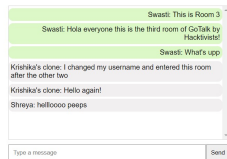- Ensure persistent user login.

Tasks to Be Done Ahead

- **Further UI Beautification:**
  - Enhance visual appeal of the interface.
  - Add interactive elements.
  - Implement modern, responsive design.

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: hellooooo peeps

Type a message   Send

Conclusion

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

Thank you for your attention!

Suggestions and Feedback welcomed.