**Automotive LK Virtual Assistant Chatbot**

Welcome! This document will guide you through the steps to set up, configure, and run the Automotive LK Virtual Assistant Chatbot on your local environment.

**Prerequisites**

1. **MySQL**: Ensure MySQL is installed and running on your computer.
2. **Go Programming Language**: The code is written in Go, so you'll need Go installed on your system.
3. **Web Browser**: Any modern browser will work to interact with the chatbot.

**Setup Instructions**

**Step 1: Extract the Zip File**

1. Locate the chatbot-Minaga Piyadigama-10659027.zip file.
2. Extract it to a preferred directory on your computer. This will create a folder named chatbot-Minaga Piyadigama-10659027 containing all necessary files and folders for the project.

**Step 2: Set Up the MySQL Database**

1. Open a terminal or command prompt.
2. Access MySQL with the following command (use the appropriate MySQL root password if configured):

mysql -u root -p

1. Create a database for the chatbot:

CREATE DATABASE automotivelk\_chatbot;

1. Exit the MySQL command prompt:

EXIT;

1. Import the database structure and sample data using the following command. Make sure to adjust the path if necessary:

mysql -u root -p automotivelk\_chatbot < "chatbot-Minaga Piyadigama-10659027/automotivelk\_chatbot.sql"

1. Enter your MySQL root password if prompted. This command will populate the automotivelk\_chatbot database with the necessary tables and data.

**Step 3: Configure the Go Environment**

1. In the extracted folder, open the file main.go in your preferred IDE or text editor.
2. Ensure that the MySQL connection settings in main.go are correct. If you’re using a different MySQL user or password, update the connection string in the connectDB() function:

dsn := "root:mysql@tcp(localhost:3306)/automotivelk\_chatbot"

* + Replace root with your MySQL username (default is root).
  + Replace mysql with your MySQL password if different.

**Step 4: Build and Run the Application**

1. Open a terminal or command prompt in the extracted folder directory (chatbot-Minaga Piyadigama-10659027).
2. Run the following command to start the Go server:

go run main.go

1. You should see an output message indicating that the server is running:

Server is running on port 8081...

**Step 5: Access the Chatbot in Your Browser**

1. Open your web browser.
2. Go to the following URL to interact with the chatbot:

http://localhost:8081

1. You can now test the chatbot by typing queries. The chatbot should fetch responses based on predefined data in the database and offer buttons for certain interactions.

**Troubleshooting**

* **Database Connection Issues**: If you encounter issues connecting to MySQL, double-check your username, password, and MySQL installation.
* **Port Conflicts**: If port 8081 is in use, you may need to modify the port in main.go:

http.ListenAndServe(":8081", nil)

Change 8081 to an available port.

* **Go Errors**: Ensure you have Go installed. If the go run main.go command fails, verify your Go installation and try again.
* **Sometimes the chatbot may not run in the first time, it happened to me rarely when I turned on the machine on a new day when the building process was going, you may run it again and see the full functionality of the chatbot**.