DOCUMENTATION FOR CHATBOT WEB APPLICATION

ABSTRACT

The ChatBot Web Application is a web application that functions as a simple chatbot, engaging in a conversation with the user and providing appropriate responses based on user input. It is built using HTML, CSS, and JavaScript.

TABLE OF CONTENTS

1. Introduction
2. Getting Started
3. Code Structure
4. Customization

DOCUMENTATION

1. Introduction

The ChatBot Web Application serves as a simple chatbot, engaging in conversations with users and providing appropriate responses based on their input. This documentation provides an overview of the project's code structure, customization options, and how to get started with the application.

2. Getting Started

- To get started with the ChatBot Web Application, follow these steps:
- Download the required files.
- Save the files in the appropriate directory on your local machine or web server.
- Open the HTML file in a web browser to view the webpage.
- Interact with the chatbot by typing messages in the input field.
- Following are the five messages:
  - Hello
  - Weather
  - Hobby
  - Food
  - Goodbye

3. Code Structure

The ChatBot Web Application consists of three main files: index.html, style.css, and script.js. Here is an overview of each file's purpose and structure:

- **HTML File (index.html)**

  The index.html file contains the structure and content of the web page. It consists of the following elements:

  - **Header Section:** The header section contains the project logo and navigation bar.
  - **Logo:** The project logo is displayed as a text "Chatbot" and serves as a link to the homepage.
  - **Navigation Bar:** The navigation bar contains a single link for the "Home" section.
  - **Chat Container:** The chat container holds the chat log, user input field, and the bot icon.
  - **Chat Log:** The chat log is a container that displays the conversation between the user and the chatbot.
  - **User Input Field:** The user input field allows the user to type their messages.
  - **Bot Icon:** The bot icon, represented by a circular background with the chatbot icon, indicates the presence of the chatbot.
  - **Footer Section:** The footer section contains the copyright.

- **CSS File (style.css)**

   The style.css file contains the styles and visual presentation of the ChatBot Web Application. It includes the following key styles:

   - **Body Styles:** Sets the font family and background color of the web page.
   - **Header Styles:** Styles the header section, including the background color, padding, and alignment of the logo and navigation bar.
   - **Navigation Styles:** Styles the navigation bar, including the text color, margin, and spacing between navigation links.
   - **Container Styles:** Styles the home section container, setting the maximum width, margin, padding, and background color.
   - **Chat Container Styles:** Styles the chat container, including the maximum width, margin, padding, background color, box shadow, and flexbox properties for alignment.
   - **Chat Log Styles**: Styles the chat log, adding margin-bottom to separate chat messages.
   - User Input Field Styles: Styles the user input field, setting the width, padding, border, and border-radius.
   - **Chat Message Styles:** Styles the user and bot messages, applying background colors, padding, and border-radius to differentiate between them.
   - **Bot Icon Styles:** Styles the bot icon, setting the font size, color, circular background color, border-radius, and padding.
   - **Footer Styles:** Styles the footer section, including the background color, padding, and alignment of the text.

- **JavaScript File (script.js)**

   The script.js file contains the logic and functionality of the ChatBot Web Application. It handles user input, generates appropriate bot responses, and updates the chat log with the conversation history.

   The JavaScript code uses event listeners to capture user input and responds with pre-defined messages or customized responses based on the user's input. The chat log is dynamically updated by creating and appending new message elements to the chat log container.

- **External Libraries**
   - **Font Awesome:** The Font Awesome library is utilized to display the bot icon. It provides a collection of customizable icons that enhance the visual representation of the chatbot.
   - **Google Font Api:** The Google Font Api library is utilized to import Poppins Font to make the web application visually appealing and professional.

4. Customization

   The ChatBot Web Application provides several customization options to tailor the application to your needs. Here are some areas you can customize:

- **Logo:** You can modify the project logo by changing the text content and styling in the HTML file's header section.
- **Styling:** The appearance of the ChatBot Web Application can be customized by modifying the CSS styles in the style.css file. You can adjust colors, fonts, sizes, spacing, and other visual properties to match your desired design.
- **ChatBot Responses:** You can customize the chatbot's responses and behavior by modifying the JavaScript code in the script.js file. You can add more predefined responses, implement custom logic, or integrate external APIs to enhance the chatbot's functionality.