Explanation of your HTML code for a chatbot. The code primarily uses HTML, CSS, and JavaScript. Let's break it down into its key parts:

HTML Section

1. **<!DOCTYPE html>**: This declares that the document is an HTML5 document.

2. **<html lang="en">**: This sets the language of the document to English.

3. **<head>**: This section contains meta information, the title, and CSS styles.

    o **<meta charset="UTF-8">**: Specifies the character encoding for the document as UTF-8.

    o **<meta name="viewport" content="width=device-width, initial-scale=1.0">**: Ensures the page is responsive on both mobile and desktop devices.

    o **<title>ChatBot For DoT</title>**: Sets the title of the page.

    o **<style>**: Contains CSS styles that dictate the appearance of the page.

CSS Section

1. **body**: Sets the overall background, font, and layout to center the content.

2. **@keyframes gradient**: Creates an animation that changes the background color.

3. **.chatbot-container**: Styles the chatbot's container, including background color, borders, and shadows.

4. **.message**: Designs the message bubbles for the chat, with different colors for user and bot messages.

5. **input[type="text"]** and **input[type="submit"]**: Style the input box and the submit button.

JavaScript Section

1. **DOM Element Selection**: Uses getElementById to select necessary elements from the DOM.

2. **appendMessage**: This function creates a new message and adds it to the chat window.

3. **sendMessage**: This function sends the user's message and retrieves a response from the bot. It uses the fetch API to send a POST request to the server.

4. **Event Listeners**: Listens for clicks on the button or presses of the Enter key to send messages.

Usage

- The page displays a chatbot titled "ChatBot For DoT."

- Users can ask questions, and the chatbot will respond.

- While the bot is responding, a "Typing..." indicator is shown.