**1. HTML Structure**

<!DOCTYPE html>

<html>

<head>

<title>Agriculture AI Chatbot</title>

<link rel="stylesheet" href="/static/style.css">

</head>

<body>

* Declares the page as an HTML5 document.
* The title is set to **"Agriculture AI Chatbot"**.
* A style.css file is linked for custom styles from the /static folder (Flask convention).

**2. Chat Container**

<div class="chat-container">

<h2>🌾 Agriculture AI Chatbot</h2>

<p>Welcome, {{ session['username'] }}! <a href="/logout">(Logout)</a></p>

<div id="chat-box"></div>

<div class="input-box">

<input type="text" id="user-input" placeholder="Type your message..." />

<button onclick="sendMessage()">Send</button>

</div>

</div>

* **{{ session['username'] }}**:  
  This is a Flask template variable showing the **logged-in user's name**.
* **#chat-box**:  
  This is where messages (from the user and the bot) will be dynamically added.
* **#user-input**:  
  Input field for typing user messages.
* **Send button** calls the sendMessage() JavaScript function when clicked.

**3. JavaScript Logic**

The JavaScript code sends the message to the backend and dynamically displays both user and bot messages.

async function sendMessage() {

const userInput = document.getElementById("user-input").value;

if (!userInput) return;

* Gets the text typed by the user.
* If the input is empty, it stops execution.

**Adding the user's message to the chat**

const chatBox = document.getElementById("chat-box");

chatBox.innerHTML += `<div class='user-msg'>👨‍🌾 You: ${userInput}</div>`;

* The message is immediately displayed in the chat box with the "👨‍🌾" emoji.

**Send message to Flask backend**

const response = await fetch("/get", {

method: "POST",

headers: { "Content-Type": "application/json" },

body: JSON.stringify({ message: userInput })

});

const data = await response.json();

* **fetch("/get")**:
  + Sends a POST request to the Flask backend endpoint /get.
  + The user's message is sent in JSON format as { message: "user input text" }.
* Waits for the chatbot's response and converts it to JSON.

**Display the bot's response**

chatBox.innerHTML += `<div class='bot-msg'>🤖 Bot: ${data.response}</div>`;

document.getElementById("user-input").value = "";

chatBox.scrollTop = chatBox.scrollHeight;

}

* Adds the bot's response to the chat with a "🤖" emoji.
* Clears the input field after sending.
* Scrolls to the **latest message**.