

## DEVELOPMENT PART-2:

### Software Required:

1. VS Code
2. Python 3.11.5

### Coding :

#### 1)WEB APP FOR FLASK:

First , get the dataset file from the GitHub (chatbot.csv)

```
from flask import Flask, request, render_template
import csv

app = Flask(__name__)

# Load the CSV dataset into a dictionary
chatbot_dataset = {}
with open('chatbot.csv', newline='') as csv_file:
    csv_reader = csv.DictReader(csv_file)
    for row in csv_reader:
        chatbot_dataset[row['Question']] = row['Response']

@app.route('/')
def home():
    return render_template('3.html')

@app.route('/ask', methods=['POST'])
def ask():
    user_input = request.form['user_input']
    response = chatbot_dataset.get(user_input, "I'm not sure how to respond to that.")
    return response

if __name__ == '__main__':
    app.run(debug=True)
```

## 2)WEBSITE USING HTML,CSS AND JAVASCRIPT:

```
<!DOCTYPE html>
<html>
<head>
  <title>Chatbot Web App</title>
  <style>
    /* Style for the chat container */
    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f4;
      margin: 0;
      padding: 0;
    }

    h1 {

      text-align: center;
    }

    #chat-box {
      background-color: #fff;
      width: 95%;
      margin: 0 auto;
      padding: 10px;
      border: 1px solid #ccc;
      border-radius: 5px;
      height: 500px;
      overflow-y: scroll;
    }

    /* Style for user input */
    #user-input {
      width: 96%;
      padding: 20px;
      margin-left: 20px;
      margin-top: 30px;
      border: 10px solid #ccc;
      border-radius: 10px;
    }

    #send {
      display: block;
      margin: 10px auto;
```

```

padding: 20px 40px;
background-color: #007bff;
color: #fff;
border: none;
border-radius: 5px;
cursor: pointer;
}

#send:hover {
background-color: #0056b3;
}

/* Style for chat messages */
p {
padding: 5px;
margin: 5px 0;
}

/* Style for user messages */
p:nth-child(odd) {
text-align: right;
background-color: #04fa08;
border-radius: 5px;
}

/* Style for chatbot messages */
p:nth-child(even) {
background-color: #b0c7bda7;
color: black;
border-radius: 5px;
}

/* Media query for responsiveness */
@media screen and (max-width: 400px) {
#chat-box {
width: 100%;
}
}

</style>
</head>
<body>
<meta charset="UTF-8">
<h1 style="font-size: 50px;">#129302; Chatbot</h1>
<div id="chat-box"></div>
<input type="text" id="user-input" placeholder="Type a message...">
<button id="send">Send</button>
</body>

```

```

<script>
document.getElementById("send").onclick = function () {
    var user_input = document.getElementById("user-input").value;
    var chat_box = document.getElementById("chat-box");

    var user_message = document.createElement("p");
    user_message.innerHTML = "<strong>You:</strong> " + user_input;
    chat_box.appendChild(user_message);


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

    var xhr = new XMLHttpRequest();
    xhr.open("POST", "/ask", true);
    xhr.setRequestHeader("Content-Type", "application/x-www-form-urlencoded");
    xhr.onreadystatechange = function () {
        if (xhr.readyState == 4 && xhr.status == 200) {
            var bot_message = document.createElement("p");
            bot_message.innerHTML = "<strong>Chatbot:</strong> " + xhr.responseText;
            chat_box.appendChild(bot_message);
        }
    };
    xhr.send("user_input=" + user_input);
};
</script>

</html>

```

### 3)OUTPUT:

 **Chatbot**

You: hi
Chatbot: Hi How i assist you

Type a message...
Send