VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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MINI PROJECT SOURCE CODE (21ADMP67) ON

"AI-CHATBOT FOR DEPARTMENT"

Submitted in partial fulfilment of the requirements for the award of

the degree of

BACHELOR OF ENGINEERING IN ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

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SOURCE CODE

HTML Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>KSSEM</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="chat-container">
    <div class="chat-header">
      <h1>Department of AI&DS</h1>
    </div>
    <div class="chat-box" id="chat-box"></div>
    <input type="text" id="user-input" placeholder="Type a message...">
    <button onclick="sendMessage()">Send</button>
  </div>
  <script src="script.js"></script>
</body>
</html>
```

Java Script Code:

```
function appendMessage(text, className) {
  const chatBox = document.getElementById('chat-box');
  const messageElement = document.createElement('div');
  messageElement.className = `chat-message ${className}`;
  messageElement.textContent = text;
  chatBox.appendChild(messageElement);
  chatBox.scrollTop = chatBox.scrollHeight;
}
async function sendMessage() {
  const userInput = document.getElementById('user-input');
  const message = userInput.value;
  if (message.trim() === ") return;
  appendMessage(`You: ${message}`, 'user-message');
  userInput.value = ";
  const response = await fetch('http://127.0.0.1:5000/chat', {
    method: 'POST',
    headers: { 'Content-Type': 'application/json' },
    body: JSON.stringify({ message: message })
  });
  const data = await response.json();
  appendMessage(`AI&DS Chatbot: ${data.response}`, 'bot-message');
}
```

CSS Code:

```
body {
  font-family: Arial, sans-serif;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  background: linear-gradient(to right, #0056a3, #7ed6df);
  margin: 0;
}
.chat-container {
  background-color: #f5f5f5;
  width: 500px;
  box-shadow: 0 8px 16px rgba(0, 0, 0, 0.2);
  border-radius: 12px;
  overflow: hidden;
}
.chat-box {
  height: 450px;
  overflow-y: auto;
  padding: 16px;
  border-bottom: 1px solid #ddd;
}
.chat-message {
  text-align: left;
  margin-bottom: 16px;
  line-height: 1.4;
  padding: 8px 12px;
  border-radius: 12px;
  max-width: 80%;
  display: inline-block;
```

```
word-wrap: break-word;
}
.user-message {
  text-align: right;
  color: #fff;
  background-color: #3d8dd3;
  align-self: flex-end; /* Keep messages on the right */
}
.bot-message {
  text-align: left;
  color: #fff;
  background-color: #56ca3e;
  align-self: flex-start; /* Align bot messages on the left */
}
.input-container {
  display: flex;
  border-top: 1px solid #ddd;
  padding: 8px;
}
.chat-header h1 {
  font-size: 32px;
  color: #2c89e0;
  margin-bottom: 10px;
  display: flex;
  align-items: center;
  justify-content: center;
}
.chat-header h1 a {
  text-decoration: none;
  color: #333;
```

```
}
.chat-header h1 a:hover {
  text-decoration: underline;
}
input[type="text"] {
  width: calc(100% - 25px);
  padding: 12px;
  border: none;
  outline: none;
  font-size: 14px;
  border-top-left-radius: 12px;
  border-bottom-left-radius: 12px;
  border-top-right-radius: 12px;
  border-bottom-right-radius: 12px;
  box-shadow: inset 0 1px 3px rgba(0, 0, 0, 0.1);
  transition: background-color 0.3s;
}
input[type="text"]:focus {
  background-color: #e0e0e0;
}
button {
  width: 80px;
  padding: 16px;
  border: none;
  background-color: #3585cb;
  color: white;
  cursor: pointer;
  border-top-right-radius: 12px;
  border-bottom-right-radius: 12px;
  border-top-left-radius: 12px;
  border-bottom-left-radius: 12px;
```

```
transition: background-color 0.3s, transform 0.3s;
}
button:hover {
  background-color: #3585cb;
  transform: scale(1.05);
}
```

Python Code:

```
from flask import Flask, request, isonify
from flask_cors import CORS
import google.generativeai as genai
app = Flask(__name__)
CORS(app) # This will enable CORS for all routes
GOOGLE_API_KEY = "AIzaSyDbVU4bZ0ypTeennw-0jKdvHFxyd6tDYf0"
genai.configure(api_key=GOOGLE_API_KEY)
model = genai.GenerativeModel('gemini-pro')
def chat_with_gemini(text):
  kb = """
Database(knowledge base)
  reply you give will be directly given to the user so give reply accordingly
       content = f"""
  You are a chatbot for the Department of AI & DS in KS School of Engineering and
Management.
  If the user requests anything other than department info, reply accordingly.
  Here is the knowledge base: {kb}
  This is the question from the user: {text}
  ** ** **
  response = model.generate_content(content)
  response.resolve()
  return response.text
@app.route('/chat', methods=['POST'])
def chat():
  user_input = request.json.get("message")
  response_text = chat_with_gemini(user_input)
  return jsonify({"response": response_text})
if __name__ == '__main__':
  app.run(debug=True)
```