



**BHASKARACHARYA NATIONAL INSTITUTE FOR SPACE
APPLICATIONS AND GEO-INFORMATICS**
WEEKLY PROGRESS REPORT (01/01/2026 – 07/01/2026)

WEEK 1

PROJECT NAME	RAG CHATBOT
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PROJECT DESCRIPTION:

an AI system that enhances a large language model (LLM) by retrieving relevant information from a knowledge base to generate accurate

GROUP MEMBER:

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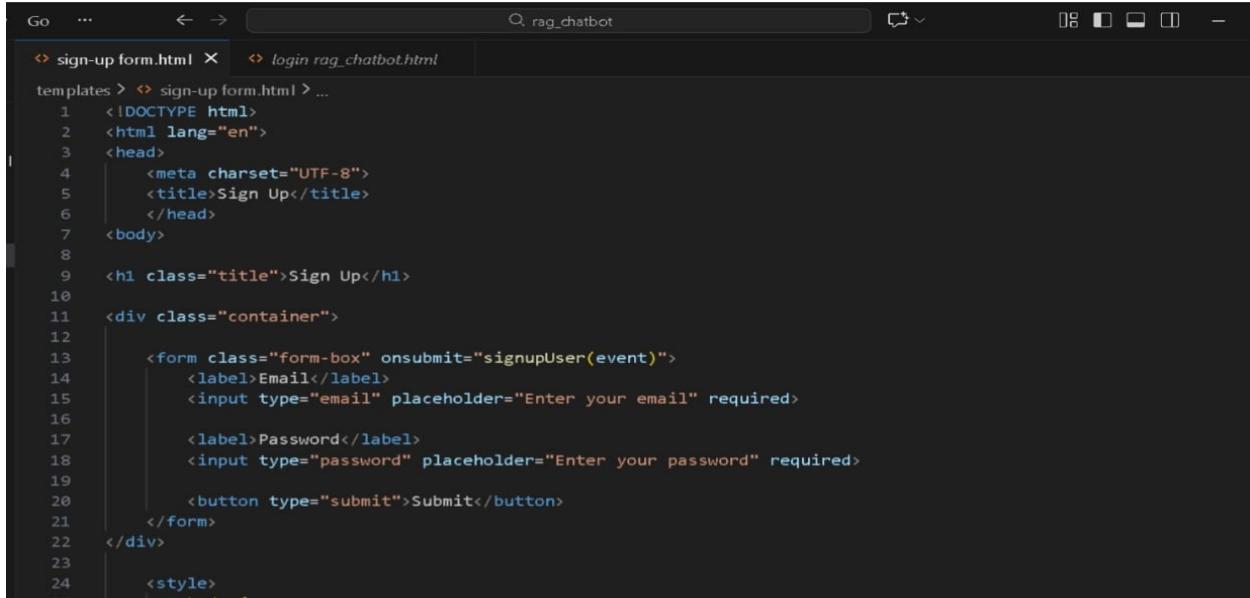
01/01/2026	<ul style="list-style-type: none"> we learn a basic about a rag chatbot and search about a rag chatbot and do some practical for practice
02/01/2026	<ul style="list-style-type: none"> Analyzed project requirements Finalized features like login and chatbot Defined project objectives
03/01/2026	<ul style="list-style-type: none"> Learned basic architecture of RAG Designed high-level system flow Identified frontend and backend modules
04/01/2026	<ul style="list-style-type: none"> Holiday (Sunday)
05/01/2026	<ul style="list-style-type: none"> Selected tools and technologies Studied Python and Flask basics Prepared development roadmap
06/01/2026	<ul style="list-style-type: none"> Created project folder structure Initialized Flask application Tested basic server execution
07/01/2026	<ul style="list-style-type: none"> After researching and planning everything about our project We plan about to start the rag chatbot sign-up page

Next Week Plan	<ul style="list-style-type: none"> We will start trying to create the login and sign-up page with the connection
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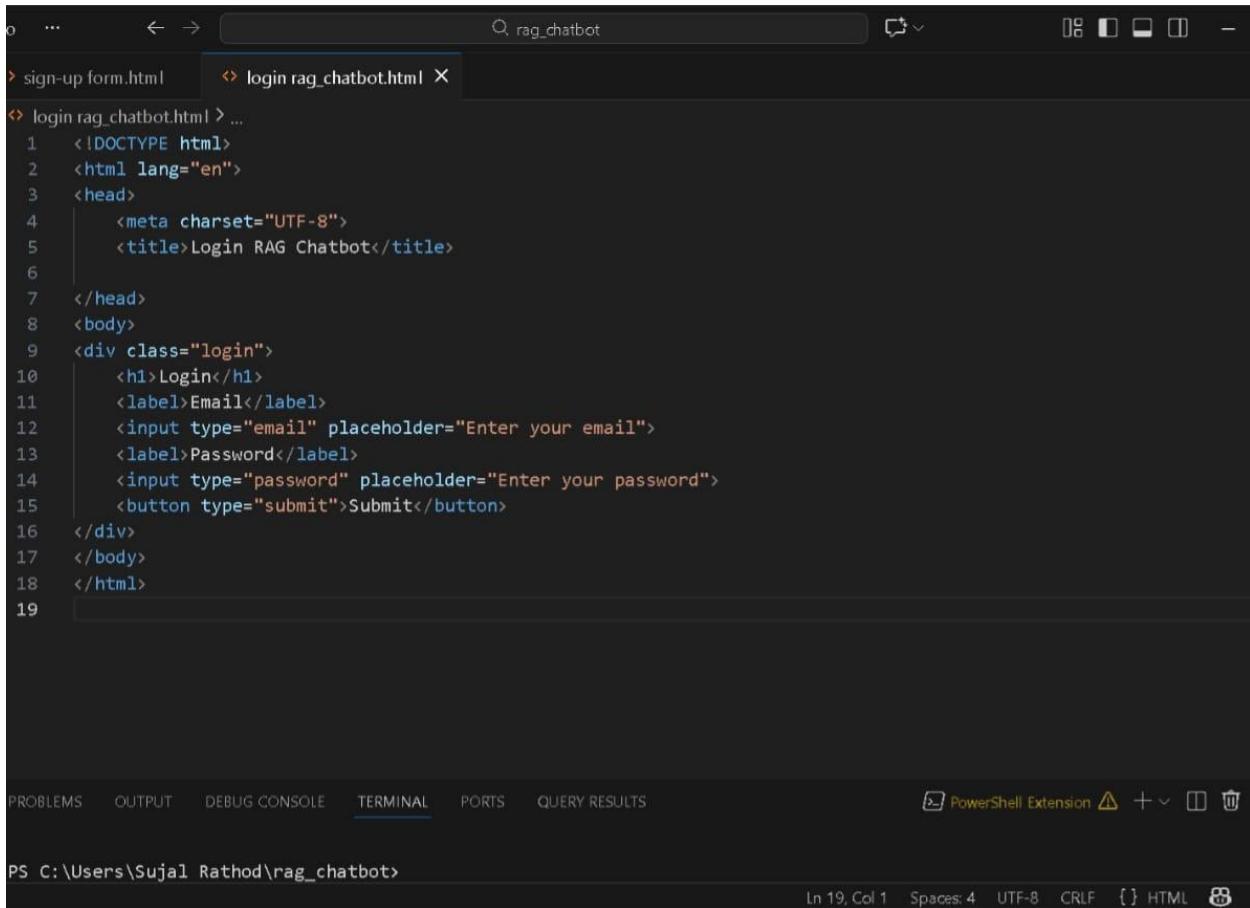
REFERENCE:

- <https://arxiv.org/abs/2005.11401>
- <https://docs.python.org/3/>
- <https://flask.palletsprojects.com/>
- https://scikit-learn.org/stable/modules/feature_extraction.html
- <https://www.geeksforgeeks.org/introduction-to-natural-language-processing/>

SCREEN SHOTS:



```
Go ... ⏪ ⏩ Q rag_chatbot
签-up form.html X login rag_chatbot.html ...
templates > sign-up form.html ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Sign Up</title>
6  </head>
7  <body>
8
9      <h1 class="title">Sign Up</h1>
10     <div class="container">
11         <form class="form-box" onsubmit="signupUser(event)">
12             <label>Email</label>
13             <input type="email" placeholder="Enter your email" required>
14
15             <label>Password</label>
16             <input type="password" placeholder="Enter your password" required>
17
18             <button type="submit">Submit</button>
19         </form>
20     </div>
21
22     <style>
23
24 
```



```
o ... ⏪ ⏩ Q rag_chatbot
sign-up form.html X login rag_chatbot.html ...
login rag_chatbot.html ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Login RAG Chatbot</title>
6
7  </head>
8  <body>
9      <div class="login">
10         <h1>Login</h1>
11         <label>Email</label>
12         <input type="email" placeholder="Enter your email">
13         <label>Password</label>
14         <input type="password" placeholder="Enter your password">
15         <button type="submit">Submit</button>
16     </div>
17
18 </body>
19 </html>
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS QUERY RESULTS

PS C:\Users\Sujal Rathod\rag_chatbot> In 19, Col 1 Spaces: 4 UTF-8 CRLF [] HTML