

INNOMATICS[®]
RESEARCH LABS

INNOVATION. AUTOMATION. ANALYTICS

PROJECT ON

Code Refactoring and Bug Fixing

About me

Hi, I'm Sridhar.

Mathematics graduate from DG Vaishnav College, where I developed a solid understanding of analytical thinking. To enhance my abilities in Python and SQL, I completed a comprehensive course on Udemy and Including My Current Internship Innomatics Research Labs. Then applied my knowledge to real-world situations by working on data science projects.

Among these projects are a Habit Tracker which demonstrate Python and data analytics.

I am enthusiastic about utilizing data-driven insights to tackle challenging problems and I am eager to contribute to the evolving field of data science to make a meaningful difference. I would be delighted to connect with you and explore potential opportunities together.

Click My
Profile

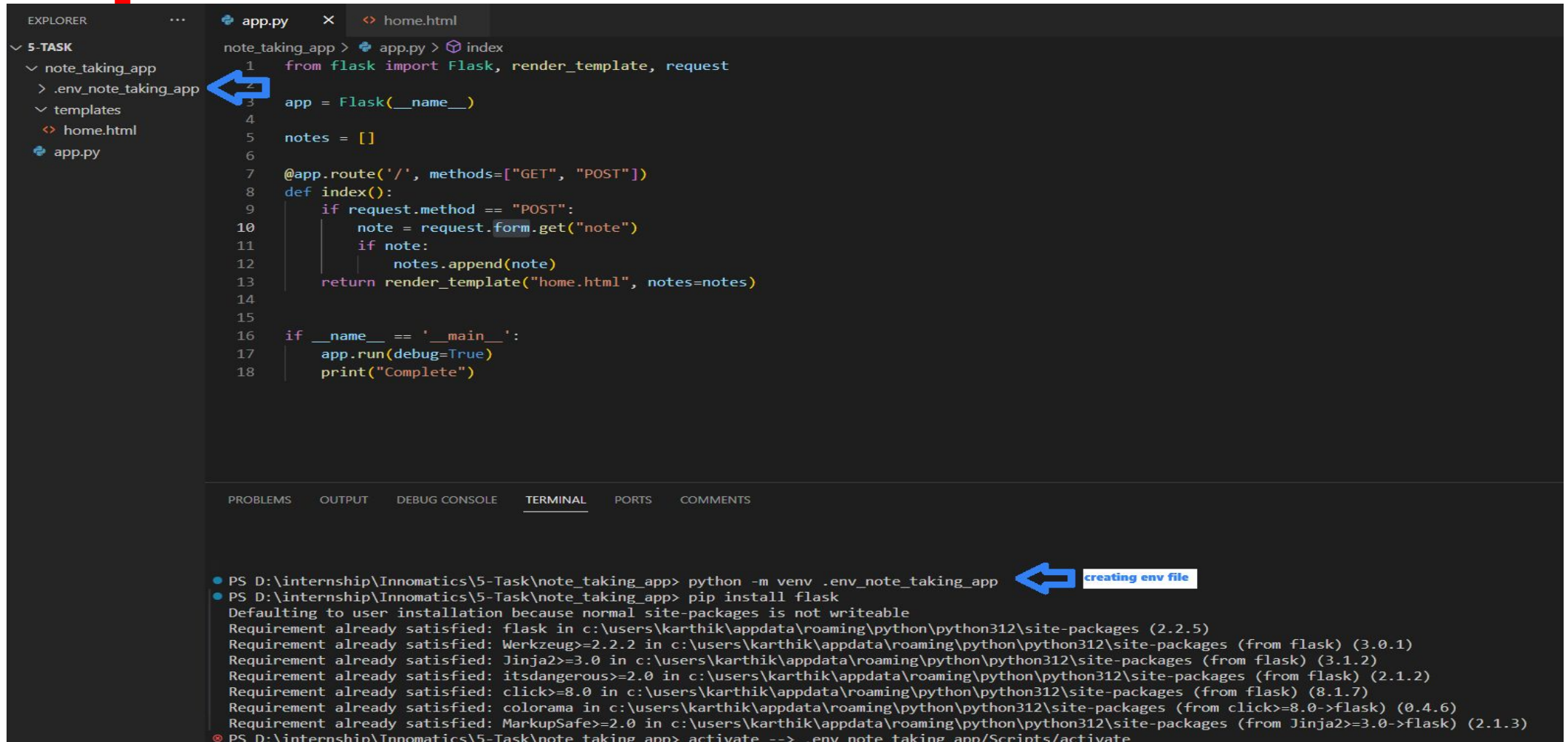


Agenda

Objective of the Project:

Refactor the existing codebase and ensure the proper functioning of the Note Taking Application. Document all identified bugs during the debugging process. Remember, the task is not about recreating the app from scratch. Your goal is to fix the already existing codebase and make the application work as intended.

Report



The screenshot displays a VS Code editor with a project named '5-TASK'. The Explorer sidebar on the left shows the file structure: 'note_taking_app' (containing '.env_note_taking_app', 'templates', 'home.html', and 'app.py'). The main editor window shows the 'app.py' file with the following code:

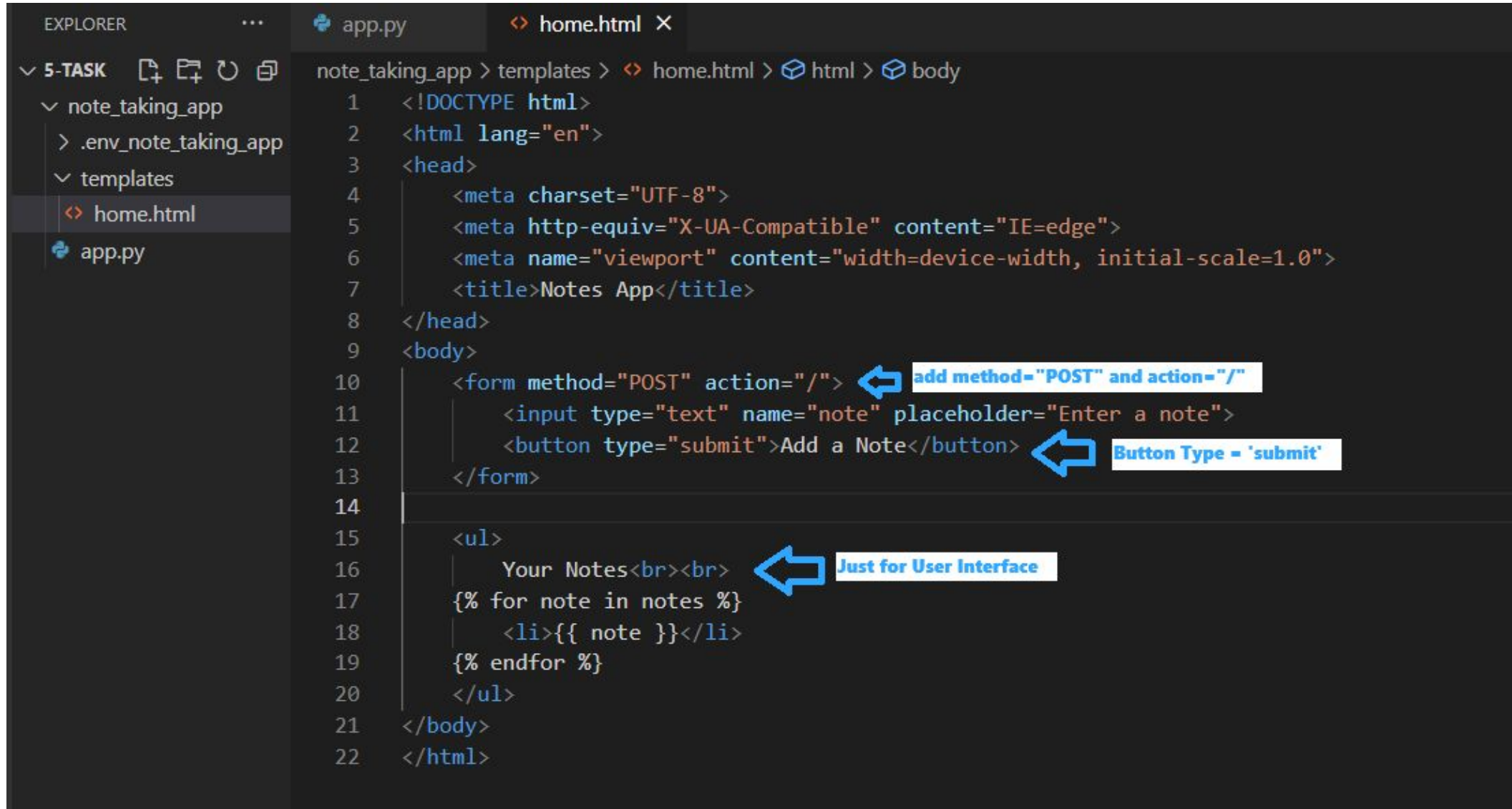
```
1 from flask import Flask, render_template, request
2
3 app = Flask(__name__)
4
5 notes = []
6
7 @app.route('/', methods=["GET", "POST"])
8 def index():
9     if request.method == "POST":
10         note = request.form.get("note")
11         if note:
12             notes.append(note)
13     return render_template("home.html", notes=notes)
14
15
16 if __name__ == '__main__':
17     app.run(debug=True)
18     print("Complete")
```

A blue arrow points to the 'app.py' file in the Explorer sidebar. The bottom panel shows the 'TERMINAL' output:

```
PS D:\internship\Innomatics\5-Task\note_taking_app> python -m venv .env_note_taking_app
PS D:\internship\Innomatics\5-Task\note_taking_app> pip install flask
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: flask in c:\users\karthik\appdata\roaming\python\python312\site-packages (2.2.5)
Requirement already satisfied: Werkzeug>=2.2.2 in c:\users\karthik\appdata\roaming\python\python312\site-packages (from flask) (3.0.1)
Requirement already satisfied: Jinja2>=3.0 in c:\users\karthik\appdata\roaming\python\python312\site-packages (from flask) (3.1.2)
Requirement already satisfied: itsdangerous>=2.0 in c:\users\karthik\appdata\roaming\python\python312\site-packages (from flask) (2.1.2)
Requirement already satisfied: click>=8.0 in c:\users\karthik\appdata\roaming\python\python312\site-packages (from flask) (8.1.7)
Requirement already satisfied: colorama in c:\users\karthik\appdata\roaming\python\python312\site-packages (from click>=8.0->flask) (0.4.6)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\karthik\appdata\roaming\python\python312\site-packages (from Jinja2>=3.0->flask) (2.1.3)
PS D:\internship\Innomatics\5-Task\note taking app> activate --> .env note taking app/Scripts/activate
```

A blue arrow points to the first command in the terminal, with a label 'creating env file' next to it.

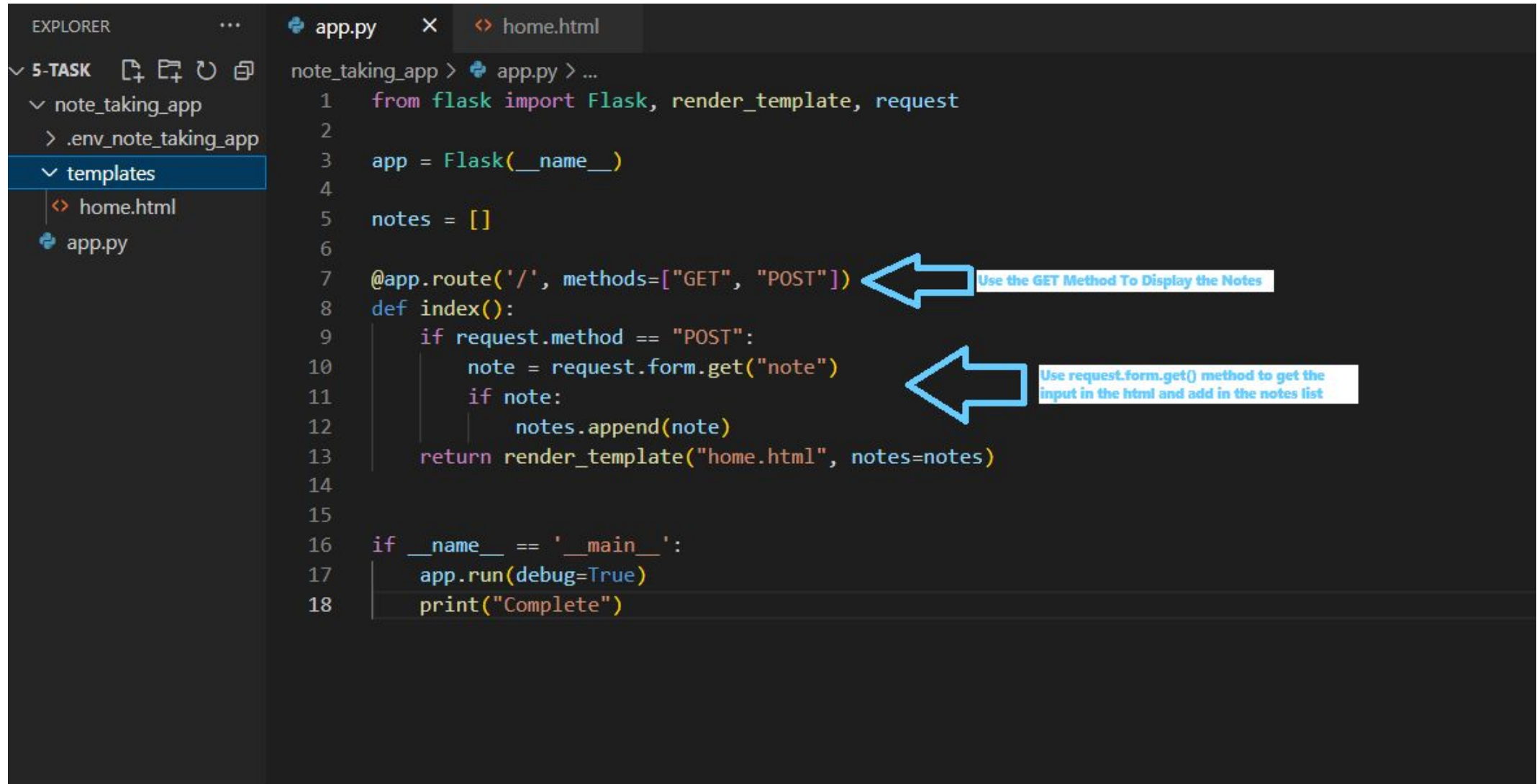
Fixing HTML



```
EXPLORER  ...  app.py  home.html X
├── 5-TASK
├── note_taking_app
│   ├── .env_note_taking_app
│   └── templates
│       └── home.html
└── app.py

note_taking_app > templates > home.html > html > body
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Notes App</title>
8  </head>
9  <body>
10     <form method="POST" action="/"> ← add method="POST" and action="/"
11         <input type="text" name="note" placeholder="Enter a note">
12         <button type="submit">Add a Note</button> ← Button Type = 'submit'
13     </form>
14
15     <ul>
16         Your Notes<br><br> ← Just for User Interface
17         {% for note in notes %}
18         <li>{{ note }}</li>
19         {% endfor %}
20     </ul>
21 </body>
22 </html>
```

Fixing Flask



The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with a folder named '5-TASK' containing a subfolder 'note_taking_app' which has a file '.env_note_taking_app' and a subfolder 'templates'. The 'templates' folder contains a file 'home.html'. The code editor shows the contents of 'app.py' and 'home.html'. The code in 'app.py' is as follows:

```
1 from flask import Flask, render_template, request
2
3 app = Flask(__name__)
4
5 notes = []
6
7 @app.route('/', methods=["GET", "POST"])
8 def index():
9     if request.method == "POST":
10         note = request.form.get("note")
11         if note:
12             notes.append(note)
13     return render_template("home.html", notes=notes)
14
15
16 if __name__ == '__main__':
17     app.run(debug=True)
18     print("Complete")
```

Two blue arrows point to specific lines of code with annotations:

- Arrow 1 points to line 7: `@app.route('/', methods=["GET", "POST"])`. Annotation: "Use the GET Method To Display the Notes".
- Arrow 2 points to line 10: `note = request.form.get("note")`. Annotation: "Use request.form.get() method to get the input in the html and add in the notes list".

Final Output



Enter a note

Add a Note

Your Notes

- the first note
- second note
-
- and so on...
-

THANK
YOU

