



INNOMATICS[®]
RESEARCH LABS

INNOVATION. AUTOMATION. ANALYTICS

PROJECT ON

Code Refactoring and Bug Fixing

About me

- Hello, my name is Prashanth, a dedicated data enthusiast who has recently completed a comprehensive Data Science course and is currently engaged in an enriching internship. While I may be considered a newcomer to the field, my fervent passion for unlocking insights from data knows no bounds.
- With a solid foundation in Data Science principles and practical experience gained through my internship, I stand ready to leverage my skills to extract meaningful insights from complex datasets. My aim is to contribute positively to our collective understanding of data-driven decision-making.
- I invite you to connect with me as I embark on this professional journey. Together, we can explore the vast landscape of data analysis and harness its potential to drive innovation and informed decision-making.

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[Prashantheleshala \(github.com\)](https://github.com/Prashantheleshala)

Task:

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

Original code:

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

```
templates > <> home.html > ...
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>Document</title>
8  </head>
9  <body>
10     <form action="">
11         <input type="text" name="note" placeholder="Enter a note">
12         <button>Add Note</button>
13     </form>
14
15     <ul>
16         {% for note in notes%}
17         <li>{{ note }}</li>
18         {% endfor %}
19     </ul>
20 </body>
21 </html>
```

ISSUES IDENTIFIED:

Form Submission Method:

- HTML form doesn't specify the action attribute, leading to GET requests.
- Flask route expects a POST request but receives GET requests.

Accessing Form Data in Flask:

- Flask route uses `request.args.get("note")` for form data, which is incorrect for POST requests.
- Form data should be accessed using `request.form.get("note")`.

Incorrect Request method in flask :

- Route has only POST method ignoring the GET requests, this resulted in method not allowed error.

Form Submission Method Issue

```
<body>  
  <form action="">  
    <input type="text" name="note" placeholder="Enter a note">
```

Code after resolving it

```
<form action="/" method="POST">  
  <input type="text" name="note" placeholder="Enter a note"> <br>
```

```
note = request.args.get("note")
```

Fixed by

```
note = request.form.get("note")
```

```
notes = []
@app.route('/', methods=["POST"])
def index():
```

← ↻ 🏠 ⓘ 127.0.0.1:5000

Method Not Allowed

The method is not allowed for the requested URL.

```
@app.route('/', methods=["GET", "POST"])
def index():
    if request.method == "POST":
        note = request.form.get("note")
```

Corrected code by including
GET

SOLUTIONS

Form Submission Method:

Specified the action attribute in the HTML form to point to the correct route.

Changed the form method to POST to match the expected request type in the Flask route.

Accessing Form Data in Flask:

Updated Flask route to use `request.form.get("note")` to retrieve form data.

Ensured proper handling of POST requests to retrieve form data correctly.

Incorrect Request method in flask :Corrected code by including GET

CONCLUSION:

By addressing these issues and implementing the solutions, the **Note Taking Application** now functions seamlessly, allowing users to add, edit ,delete and display notes effectively.

Note Making Application

Add Note

- tasks for the day

Edit

Delete

THANK
YOU

