



INNOVATION. AUTOMATION. ANALYTICS

PROJECT ON

Code Refactoring and Bug Fixing

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About me

Hi Everyone ! I am Sivasankar.S. I currently pursuing B.E Computer Science and Engineering at Government College Of Engineering Srirangam . With a strong passion of coding and Problem Solving . I am also well acquainted field of Data Science and Web Development .I am eager learner, constantly striving to improve my skills . I am currently doing Data Science Intern at Innomatics Research Labs .I am also worked on the projects E-Commerce for Automobile Workshop and Sentiment Analysis using NLP(LSTM).

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Scenario

A team of enthusiastic data scientists embarked on a mission to develop a Note Taking Application using Python, Flask, and HTML. However, their lack of experience in backend development has led to challenges in making the application fully functional. Recognizing your proficiency in backend development, you have been tasked with fixing the broken code and ensuring the application works seamlessly.

Task

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.

Bug 1: Found in the Server File

- The Initial was founded at the app.py server routing .In the app.py routing file does have the action methods for get it gave only post post. So I will show error in the browser if you are running without refactoring.

```
notes = []
@app.route('/', methods=["POST"])
def index():
    note = request.args.get("note")
    notes.append(note)
    return render_template("home.html", notes=notes)
```



Method Not Allowed

The method is not allowed for the requested URL.

Bug 1:Code refactoring in the Server File

- In order to run the flask server you need to mention the action methods get and post . after that you check the conditions based on the request method if it is post or get method I get the name from the html and append to the names list.

```
@app.route('/', methods=["POST","GET"])
def index():
    if request.method=="POST":
        name=request.form['note']
        notes.append(name)
        return render_template("home.html", notes=notes)
    else:
        note = request.args.get("note")
        notes.append(note)
        return render_template("home.html", notes=notes)
```

Bug 2:Form Page does not have action and method

- It is important to mention your action url and method name in the form in the html.

```
<form action="">
  <input type="text" name="note" placeholder="Enter a note">
  <button>Add Note</button>
</form>

<ul>
{% for note in notes%}
  <li>{{ note }}</li>
{% endfor %}
</ul>
```

Bug 2:Refactoring Form page with url and methods

- In the action must put <http://localhost:5000/> or / and method name get or post in the form page .(Home.html)
- After the refactoring these error you code will be look like this.

```
<form action="http://localhost:5000/" method="post">  
  <input type="text" name="note" placeholder="Enter a note" />  
  
  <button type="submit">Submit</button>  
</form>
```

Bug 3:Refactoring Form page button

- In the html page button it does not have the submit value so it is also considered as a bug . Without these value="submit" the form input does not send to the server.

```
<form action="">
  <input type="text" name="note" placeholder="Enter a note">
  <button>Add Note</button>
</form>

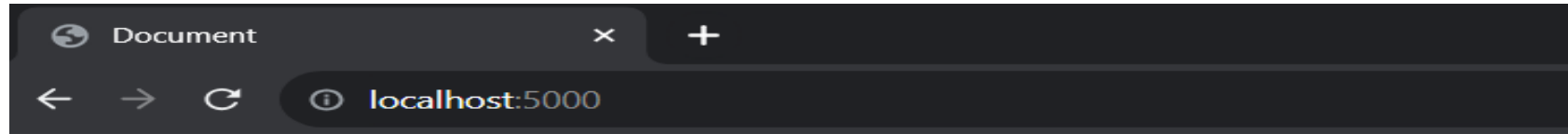
<ul>
```

Bug Code

```
<form action="">
  <input type="text" name="note" placeholder="Enter a note">
  <button>Add Note</button>
</form>
```

Refactor Code

Sample Output



Sample Input

- demo
- hello sivasankar
- data science
- Machine Learning

THANK
YOU

