



INNOVATION. AUTOMATION. ANALYTICS

## PROJECT ON

**Code Refactoring & Bug Fixing in Flask**

# About me

- Hi there! I'm Suriya [IN1240065], a 21-year-old data enthusiast, currently in pre-final year at VIT University. Sure, I might be fresh, but I'm your one-stop shop for unlocking insights from numbers.
- Speaking of Experience, my internship at Hindustan Aeronautics Limited (HAL) was a rocket ship ride! For 45 days, I tackled complex big data, tamed it with SQL magic, built dashboards using tableau that told stories, and learned to clean data.
- Feel free to reach out! I'm always down to connect with you all. 😊

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# Objective

- **To uncover the bugs and errors that stopping the code to run and fixing them to have a fully exposed web application**

# Lets run the given code



```
from flask import Flask, render_template, request

app = Flask(__name__)

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

if __name__ == '__main__':
    app.run(debug=True)
```

## Output:



http://127.0.0.1:5000

### Method Not Allowed

The method is not allowed for the requested URL.



home.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-
scale=1.0">
<title>Document</title>
</head>
<body>
<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>
</body>
</html>
```

**No problem! Looks like our code is throwing a "Method not allowed" error. Don't worry, we'll debug it together, step-by-step, and get this web app humming!**



Uh Oh! We got some error!



# Step – 1: [app.py]

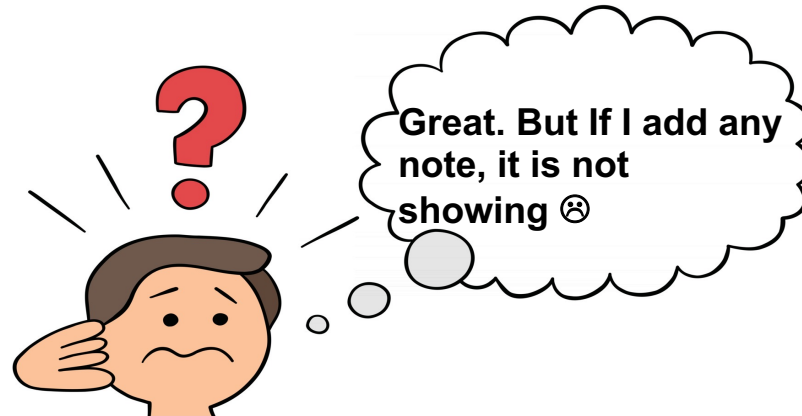
```
from flask import Flask, render_template, request

app = Flask(__name__)

notes = []
@app.route('/', methods=["POST"]) #bug-1
def index():
    note = request.args.get("note")
    notes.append(note)
    return render_template("home.html", notes=notes)

if __name__ == '__main__':
    app.run(debug=True)
```

Look at the “methods” there is **no GET**. Even though you are posting your notes over there, your HTML file still requires GET method to access.



# Step – 2: [app.py]

```
from flask import Flask, render_template, request

app = Flask(__name__)

notes = []
@app.route('/', methods=["GET", "POST"]) #bug-1
def index():
    note = request.args.get("note") #bug-2
    notes.append(note)
    return render_template("home.html", notes=notes)

if __name__ == '__main__':
    app.run(debug=True)
```

Inside index(), you see there is “args” method used. But you are supposed to use “**form**” method from HTML to access your notes



# Step – 3: [app.py]

```
from flask import Flask, render_template, request
```

```
app = Flask(__name__)
```

```
notes = []
```

```
@app.route('/', methods=["GET", "POST"]) #bug-1
```

```
def index():
```

```
    if request.method == "POST":
```

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

```
        if note: #bug-3
```

```
            notes.append(note)
```

```
        return render_template("home.html", notes=notes)
```

```
if __name__ == '__main__':
```

```
    app.run(debug=True)
```

Chillax. You need to add some functions to make your code run. Look into the index function. You need to **append** your input into list to make it visible.





# Step – 4: [home.html]

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Document</title>
</head>
<body>
<form action=""> #bug-4
<input type="text" name="note" placeholder="Enter a
note">
<button>Add Note</button>
</form>

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

Now, its time to look into HTML file.  
There is a **missing argument** and  
**missing method** in form action. Did you  
notice?

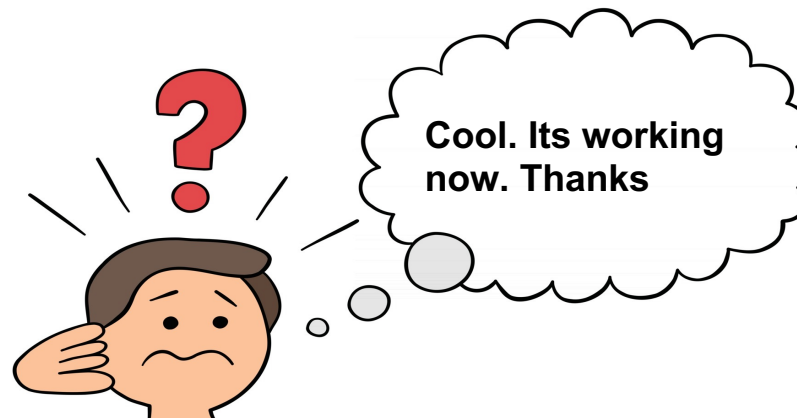


# Step – 5: [home.html]

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Document</title>
</head>
<body>
<form action="/",method="POST"> #bug-4
<input type="text" name="note" placeholder="Enter a
note">
<button type="submit">Add Note</button> #bug-5
</form>

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

Your button should get access to **submit** function to submit all your notes. I think now, it should work better.



# OUTPUT:



<http://127.0.0.1:5000>

- hi,how are you?
- What are you doing?
- Flask

THANK  
YOU

