



INNOMATICS[®]
RESEARCH LABS

INNOVATION. AUTOMATION. ANALYTICS

PROJECT ON

Code Refactoring and Bug Report Analysis

Borra Rajamaheshwar Reddy
IN1240188

About me

- This is Borra Rajamaheshwar Reddy and I completed my B.Tech CSE program at GNA UNIVERSITY
- I am passionate about Data Science as it enables me to confidently analyze data and provide valuable insights.

- LINKEDIN URL:
www.linkedin.com/in/rajamaheshwarreddy
- GITHUB URL:
<https://github.com/RajamaheshwarReddy>

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.

```
app.py x
note_taking_app > 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)
```

Bug1:

In app.py the route was defined with methods = ['POST'], but in home.html was using default GET Method.

Solution: i have changed method to ["POST","GET"] in aapp.py

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

Bug2:

In app.py file index function was only handling POST requests but form was not specifying a method , resulting GET request

Solution:

I have updated the index function to check for the requests method and handle both GET and POST methods

```
def index():  
    if request.method == 'POST':  
        note = request.form.get("note")  
        notes.append(note)  
    return render_template("home.html", notes=notes)
```

Bug 3:.

In app.py file used requests.args.get("note") to get form data

Solution:

I have modified the code to request.form.get("note") for obtaining form data

Bug 4:

In home.html we dont have type attribute to add Note button

Solution: add type submit in button tag

```
<button type="submit">Add Note</button><br>
```

After refactoring and bug fixing ,displayed in the browser, code runs successfully

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- Health benefits of citrus fruits
- Keep your skin young and youthful: Vitamin C is the best option for our skin health
- Help reduce pigmentation:
- May reduce the risk of kidney stones:

THANK
YOU

