

INNOVATION, AUTOMATION, ANALYTICS

Code Refactoring and Bug Fixing

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1.Original Code:-

```
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)
```

from flask import Flask, render template, request

2. Refactored Code:-

3.Identified Bug:-

The original code uses request.args.get("note") to retrieve the note submitted from the form. However, in Flask, form data is typically accessed using request.form.get("note"). Using request.args.get is meant for retrieving query parameters from the URL, not form data.

4. Changes Made:-

Replaced request.args.get("note") with request.form.get("note") to correctly access form data.

5.Impact of the Bug:-

The original code would not have captured any notes submitted through the form. Users would have been able to see previously added notes, but any new notes wouldn't have been added to the notes list and wouldn't be displayed.

6.Output:-

```
        {% for note in notes %}
        {i>{{ note }}
        {% endfor %}

</body>
</html>
```

7. Conclusion:-

This report analyzed a simple Flask application with a form for adding notes. It identified a bug in the code where the request.args.get method was used incorrectly to retrieve form data. The report then presented the refactored code using the appropriate request.form.get method to address the bug.