REPORT ON CODE REFACTORING AND BUG FIXING

Problem Statement:

A team of enthusiastic data scientists embarked on the journey of crafting a Note Taking Application using Python, Flask, and HTML.

Unfortunately, their expertise in backend development proved to be a bit limited, leading to challenges in achieving complete functionality for the application.

It's our task to address the issues in the existing code and ensure the seamless operation of the application.

Bug-1: GET METHOD USED IN POST REQUEST

Method Not Allowed

The method is not allowed for the requested URL.

 Solution: To fix this issue, we need to change request.args.get("note") to request.form.get("note"), as request.form is used to access form data sent with a POST request.

Bug-2 : GET REQUEST NOT ADDED IN ROUTE LIST

Method Not Allowed

The method is not allowed for the requested URL.

Solution: Adding GET request in the route method list in flask code @app.route('/', methods=["GET","POST"])

Bug-3: TYPE ATTRIBUTE IS MISSING

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

Solution : Add type = "Submit" in button tag in the html code.

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

Final Application Visualization

Welcome to Code Refactoring and Bug Fixing

| Enter a note | Add Note |

- Hello World!
- Artificial Intelligence
- Deep Learning
- Machine Learning

Conclusions:

➢ **Correct Method Usage:** Ensured that the correct method (request.form) is used to access form data in a POST request.
➢ **Route Method List:** Included both GET and POST requests in the route decorator to handle form submissions.
➢ **Button Type Attribute:** Added the type="submit" attribute to the HTML form submit button.

➢ The above corrections address the identified issues and ensure the smooth operation of the Note Taking Application. With these fixes, the application should now properly handle form submissions and display entered notes as intended. The team can proceed with further development and enhancements based on this corrected foundation.