Note Taking Application – Bug Fix Report

Introduction

This document explains the problems found in a simple note-taking application and how those problems were fixed to make the application work correctly.

About the Application

The application allows users to enter notes using a text box. When the Add Note button is clicked, the note is shown below the form as a list.

List of Bugs Found

1. The home route was accepting only POST requests, so the page did not load properly.
2. The HTML form did not mention the POST method.
3. request.args was used instead of request.form to read form data.
4. Empty notes were added when the input field was left blank.

Fix Approach

The route was updated to accept both GET and POST requests. The form method was changed to POST. request.form was used to correctly receive user input. A simple check was added to avoid saving empty notes.

Final Working Code

app.py

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

app = Flask(__name__)

notes = []

@app.route("/", methods=["GET", "POST"])
def home():
    if request.method == "POST":
        note = request.form.get("note")
        if note and note.strip():
            notes.append(note)
    return render_template("home.html", notes=notes)

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

home.html

```html
<!DOCTYPE html>
<html>
<head>
    <title>Notes App</title>
</head>
<body>
    <h2>Note Taking Application</h2>
    <form method="POST">
        <input type="text" name="note" placeholder="Enter a note">
        <button type="submit">Add Note</button>
    </form>

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

```
            {% endfor %}
        </ul>
    </body>
    </html>
```

Conclusion

After fixing these issues, the application works properly. Users can add notes and see them displayed on the same page without errors.