

## **Note Taking App – Bug Report**

This document outlines the issues identified in the given “Note Taking Application” and explains how each one was resolved.

The goal of the app is simple: **a user should be able to enter a note and see all notes listed on the same page.**

### **Bug 1: Home route allowed only POST requests**

The original code defined the home route with only the POST method. However, when a user opens a web page in a browser, the browser sends a GET request. Because GET was not allowed, the page did not load properly.

**Fix:** The route was updated to accept both GET and POST methods so the page loads normally and also handles form submissions.

### **Bug 2: Wrong way of reading form data**

The code used `request.args.get()` to read the note. This method is used for query parameters in GET requests. Since the form is meant to submit data, it should be handled using POST.

**Fix:** Replaced it with `request.form.get()` so the note is read correctly from the form.

### **Bug 3: HTML form missing POST method**

The HTML form did not specify a method. By default, forms use GET, which did not match the backend logic.

**Fix:** Added `method="POST"` and `action="/"` to the form tag.

### **Bug 4: Notes were not managed properly**

There was no proper structure to store notes and send them back to the template on every request.

**Fix:** A list was added in the backend to store all notes, and this list is passed to the template every time the page is rendered.

## **Result**

After fixing these issues:- The home page loads correctly.- Users can enter a note and submit it. All notes appear as an unordered list on the same page. New notes are added without losing previous ones.

This refactoring helped me understand how Flask handles GET and POST requests, how form data flows from frontend to backend, and how small mistakes can break an entire application.