**Note Taking Application Bug Fix Documentation**

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Documented by: Divyasree Peddadevara

**1. Introduction:**

This document outlines the bugs identified and the corresponding fixes implemented in the Note Taking Application. The application is built using Python with the Flask framework for the backend and HTML for the frontend.

The Note Taking Application is designed to allow users to add notes via a web form and display these notes dynamically on the same page. However, during testing and usage, several bugs were identified that hindered the application's functionality. This document provides a detailed analysis of these bugs and the systematic approach used to resolve them, ensuring the smooth operation of the application.

**2. Bugs Identified and Resolution Approach:**

**Bug 1:** Method Not Allowed Error

Description: Users encountered a "Method Not Allowed" error when accessing the root URL ('/') via a web browser.

**Approach:**

* **Identification:** Analyzed the error message and reviewed the Flask application's route configuration.
* **Resolution:** Modified the route to accept both GET and POST requests, allowing the application to handle requests from web browsers properly.

**Bug 2:** Form Submission Issue

**Description:** Adding a note through the form submission did not update the list of notes displayed on the page.

**Approach:**

* **Identification:** Tested the form submission functionality and observed that the added notes were not being displayed.
* **Resolution:** Updated the form submission handling to correctly retrieve the note data and append it to the list of notes, ensuring proper synchronization between form submission and note display.

**3. Fixes Implemented:**

**Fix 1: Route Modification**

Location: app.py (Flask Application)

Description: Modified the route for the root URL ('/') to accept both GET and POST requests.

Code:

python

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

def index():

if request.method == "POST":

note = request.form.get("note")

if note:

notes.append(note)

return render\_template("home.html", notes=notes)

**Fix 2: Form Submission Handling**

Location: home.html (HTML Template)

Description: Updated the form submission method to send data using the POST method and correctly handle the note data sent by the form.

Code:

html

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<form action="/" method="post">

<input type="text" name="note" placeholder="Enter a note">

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

</form>

**4. Conclusion:**

All identified bugs have been successfully fixed, and the Note Taking Application now functions as intended. The application allows users to add notes via a form submission, and the added notes are displayed dynamically on the same page.