

Notes App Refactor - Bug Report & Fix Approach

Project summary:

A simple Flask notes app with a Home route to add and list notes.

Bugs found and fixes:

1) Home route only accepted POST requests

Bug: `@app.route('/', methods=['POST'])` blocks normal page load.

Impact: Opening `http://127.0.0.1:5000/` in a browser gives 405 Method Not Allowed.

Fix: Allow both GET and POST -> `methods=['GET','POST']`.

2) Reading note from the wrong place

Bug: `note = request.args.get('note')` reads querystring params.

Impact: Submitting the form sends data in the POST body, so note becomes None.

Fix: Use `request.form.get('note')` for POST form data.

3) HTML form did not specify method/action

Bug: `<form action="">` defaults to GET and may not hit the expected route.

Impact: App expects POST submission but browser uses GET.

Fix: Set `<form action='/' method='POST'>`.

4) Empty/None notes were being appended

Bug: The code appended note even if it was None or empty.

Impact: UI shows blank list items.

Fix: Strip input and only append when note is not empty.

5) Duplicate submissions on refresh

Bug: Returning a template directly after POST can re-submit on browser refresh.

Impact: Same note gets added multiple times.

Fix: Use Post/Redirect/Get pattern (redirect to GET after adding note).

Template handling note:

- Flask looks for HTML templates inside a 'templates/' folder.

- Solution: Move `home.html` into `templates/home.html`.

Final behavior:

- GET / shows the input + Add Note button + existing notes.

- POST / adds the note and redirects back to GET /.