Bug Report and Resolution for Note Taking Application

Bug 1: Form Submission Issue

- Symptoms: When adding a note through the form and clicking the "Add Note" button, the note is not displayed.
- Probable Cause: The form action attribute is empty, leading to the form submission to the same route causing the notes list not to update.
- Resolution: Update the form action attribute to point to the root route ("/").

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

Bug 2: Retrieving Note Data from Request

- Symptoms: Despite fixing the form submission issue, no notes are being added to the list.
- Probable Cause: The note data is retrieved from request.args, but it should be retrieved from request.form since it's a POST request.
- Resolution: Change request.args.get("note") to request.form.get("note") to correctly retrieve the note data from the form.

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

Bug 3: Displaying Notes in the Template

- Symptoms: Even after adding notes, they are not displayed on the page.
- Probable Cause: The template variable notes is not being passed correctly to the render template function.
- Resolution: Pass the notes variable explicitly to the render template function.

return render_template("home.html", notes=notes)

Bug 4: Unordered List not Updated

- Symptoms: Although notes are being added, they are not displayed in an unordered list format.
- Probable Cause: The unordered list in the HTML template is not updated dynamically.
- Resolution: Enclose the unordered list inside the form to ensure it is updated dynamically after each note addition.

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# Final Code -:
from flask import Flask, render_template, request
app = Flask(__name___)
notes = []
@app.route('/', methods=["GET", "POST"])
def index():
  if request.method == "POST":
    note = request.form.get("note")
    notes.append(note)
  return render_template("home.html", notes=notes)
if __name__ == '__main__':
  app.run(debug=True)
# Html -:
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Note Taking App</title>
</head>
<body>
  <form action="/" method="POST">
    <input type="text" name="note" placeholder="Enter a note">
    <but><button>Add Note</button></br/>
    ul>
      {% for note in notes %}
        {| note }}
      {% endfor %}
    </form>
</body>
</html>
```