

# Flask Application for Note Taking

## Overview:

A basic Flask web application with note-taking features is presented via the given code. The website has a form that users can fill out, and the notes they submit are shown below the form.

## Code Analysis:

### HTML Template (home.html):

- The HTML template includes a form where users can input their notes.
- Notes entered by users are displayed below the form in an unordered list.

### Flask Application (app.py):

- The Flask application sets up a basic server.
- It defines a route ('/') which handles both GET and POST requests.
- Upon a POST request, the application retrieves the note from the form data and appends it to the 'notes' list.
- The template 'home.html' is then rendered with the updated list of notes.

## Issues Identified:

- The form in the HTML template is missing the method attribute. It should be set to 'POST' to properly submit the form data.
- In the Flask application, the retrieval of the note from the request should use `request.form.get("note")` instead of `request.args.get("note")` since the data is sent via POST method.

## Corrected Code:

### App.py:

```
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")

        if note:
            notes.append(note)

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

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

### home.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>Document</title>

</head>

<body>

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

```
<input type="text" name="note" placeholder="Enter a note">
<button>Add Note</button>
</form>
<ul>
{% for note in notes%}
    <li>{{ note }}</li>
{% endfor %}
</ul>
</body>
</html>
```

## **Conclusion:**

The Flask application for note-taking has been corrected to ensure proper functionality. Users can now input notes via the form, and these notes are displayed on the web page. The recommended changes have been implemented to resolve the identified issues, resulting in a functional note-taking web application.