

Explanation of Debugging the Note Taking Application

Task:

- I was provided with a note taking application with only one route (i.e., Home Route) and the application was broken. It was related to Flask.
- The task given, is to refactor the code and to make sure the application works properly.
- Home route contains a 'text field' and a 'button'. User can add a note and all the notes will be displayed as an unordered list below the text field on the same page.

To debug Backend File:

```
1  from flask import Flask, render_template, request
2
3  app = Flask(__name__)
4
5  notes = []
6  @app.route('/', methods=["POST"])
7  def index():
8      note = request.args.get("note")
9      notes.append(note)
10     return render_template("home.html", notes=notes)
11
12
13 if __name__ == '__main__':
14     app.run(debug=True)
```

Approach:

- In app.route the method specified is **POST** and while taking input we are using **GET** method since **request.agrs.get()**.
- First we will display the html page by default route option GET and while assigning input to notes variable we will use POST method.
- If we are using POST method then while assigning input we have use **request.form.get()**.
- We have to specify both methods in **@app.route** as **methods = ["GET","POST"]**

```
1  from flask import Flask, render_template, request
2
3  app = Flask(__name__)
4
5  notes = []
6  @app.route('/', methods=["GET", "POST"])
7  def index():
8      if request.method == "POST":
9          note = request.form.get("note")
10         notes.append(note)
11         return render_template("home.html", notes=notes)
12     return render_template("home.html")
13
14
15 if __name__ == '__main__':
16     app.run(debug=True)
```

To debug Frontend File:

- In frontend part, there is not a lot of changes, we just have to add a POST method in the form so that the values fetched through form sent back to POST method in the backend file.

Home.html Before debug :

```
note_taking_app > templates > home.html > html > body > form
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8  </head>
9  <body>
10     <form action="">
11         <input type="text" name="note" placeholder="Enter a note">
12         <button>Add Note</button>
13     </form>
14
15     <ul>
16         {% for note in notes %}
17         <li>{{ note }}</li>
18         {% endfor %}
19     </ul>
20 </body>
21 </html>
```

Home.html After debug :

```
note_taking_app > templates > <> home.html > html > body > ul > li
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Taking Note</title>
8  </head>
9  <body>
10     <form action="" method="post">
11         <input type="text" name="note" placeholder="Enter a note">
12         <button>Add Note</button>
13     </form>
14
15
16     <ul>
17         {% for note in notes%}
18         <li>{{ note| }}</li>
19         {% endfor %}
20     </ul>
21
22 </body>
23 </html>
```