



INNOVATION. AUTOMATION. ANALYTICS

PROJECT ON

Code Refactoring and Bug Fixing On Note Taking App

**Prepared By
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About me

Currently pursuing a Master of Science in Data Science, my educational background is rooted in a strong foundation of analytical skills. My passion lies in unraveling the hidden patterns within datasets and extracting valuable insights. Through a previous internship in the insurance sector, I gained practical experience in data analysis, honing my ability to derive meaningful conclusions from complex datasets. My motivation to learn data science stems from a deep-seated curiosity and a desire to contribute to the field by leveraging data-driven approaches to solve real-world problems.



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Problem Description:

Refactor the existing codebase and ensure the proper functioning of the Note Taking Application. Document all identified bugs during the debugging process. Remember, the task is not about recreating the app from scratch. Our goal is to fix the already existing codebase and make the application work as intended.

Tech Stack:

- Python
- Flask
- HTML

Problem Statement:

Notesy is a simple Note making application built using Flask, Python a web framework and HTML. This app helps the users to store their notes and delete if required with the confirmation of saving and deleting the note.

Bugs Identification:

Bugs in app.py:

- The route decorator should listen for both GET and POST requests, not just POST.
- In the form action, the method attribute should be enclosed in double quotes, not square brackets.
- Need to implement functionality to delete notes.

Bugs in home.html:

- The form method should be "POST", not "['Post']".

Approach to Resolve:

After identifying the bugs, the approach involves modifying and making changes in the flask route to handle both GET and POST requests and updating it to the html file .

Process:

- First I have uploaded the folder “note_taking_app” to vs code.
- It contained 2 items one was templates folder with “home.html” as the file and the other was “app.py”
- Initially I created a virtual environment with the name “.env_flask_note_taking_app”, then activated it to use . Installed flask in the environment as “pip install flask”.
- Then used app.py and home.html and found out the bugs and resolved it .
- I have even created two more templates for my note_taking_app which i name it as “NOTESY” app , thankyou.html and delete.html.

Changes made:

- Added a new route /delete/<int:index> to handle note deletion.
- Updated the form method attribute to "POST".
- Added a delete link for each note with the index passed as a parameter to the /delete route.
- Implemented note deletion logic in the delete route.
- Updated the form action attribute to "/" to match the root route.

ReSolved Code :

app.py

```
app.py
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.args.get("note")
10         if note:
11             notes.append(note)
12         return render_template("home.html", notes=notes)
13
14     @app.route("/thankyou", methods=['GET'])
15     def thankyou_fun():
16         return render_template("thankyou.html")
17
18     @app.route("/Delete", methods=['GET'])
19     def Delete_fun():
20         return render_template("Delete.html")
21
22     if __name__ == '__main__':
23         app.run(debug=True)
24
```

home.html

templates > home.html > html > body > center > form > button

```
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   <style>
9     body {
10       background-image: url('https://cdn.dribbble.com/users/689614/screenshots/2941590/notesy_logo_3x.png?
11       background-size: cover; /* Cover the entire background */
12       background-repeat: no-repeat; /* Prevent the background from repeating */
13       background-attachment: fixed; /* Keep the background fixed while scrolling */
14     }
15     p {
16       font-size: 20px; /* Specify the desired font size */
17     }
18     input[type="text"] {
19       width: 500px; /* Specify the desired width */
20       height: 200px; /* Specify the desired height */
21       padding: 10px; /* Add padding for spacing inside the box */
22       border: 1px solid #ccc; /* Add border for box-like appearance */
23       border-radius: 5px; /* Add rounded corners for aesthetics */
24       font-size: 16px; /* Specify the desired font size */
25       box-sizing: border-box; /* Include padding and border in the width/height */
26     }
27   </style>
28 </head>
29 <body>
30   <h1 style = "color: red;"><center>Welcome to Your Notesy App</center></h1>
31   <center>
32     <form action="/thankyou", methods="post">
```

```
</style>
</head>
<body>
  <h1 style = "color: red;"><center>Welcome to Your Notesy App</center></h1>
  <center>
    <form action="/thankyou", methods="post">
      <p>Enter your notes here.</p>
      <input type="text" name="note" placeholder="Enter a note" ><br>
      <br>
      <button type="submit">Add Note</button>
    </form>

    <form action="/Delete", methods="post">
      <p>To Delete your notes click below button</p>
      <button type="submit">Delete Note</button>
    </form>

  </center>
  <ul>
    {% for note in notes%}
    <li>{{ note }}</li>
    {% endfor %}
  </ul>
</body>
</html>
```


Delete.html

```
templates > Delete.html > html > body
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7  </head>
8  <body>
9      <center>
10         <h1><center>Your Notes are Successfully Deleted</center></h1>
11         <form action="/">
12             <center>
13                 <button type="submit">Home</button>
14             </center>
15         </form>
16     </center>
17 </body>
18 </html>
19
```

thankyou_html

```
templates > thankyou.html > html > body > center
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7  </head>
8  <body>
9      <center>
10         <h1><center>Thank you for using Notesy App</center></h1>
11         <form action="/">
12             <center>
13                 <button type="submit">Back</button>
14             </center>
15         </form>
16     </center>
17 </body>
18 </html>
```

Conclusion:

The Note Taking Application has been successfully refactored and debugged. In app.py, routes for adding and deleting notes were implemented, ensuring proper functionality. The home.html template was updated to display notes in a list format and provide the ability to delete individual notes. Additionally, the UI was improved with consistent background color, increased text size, and styled input fields for a better user experience.

Final Output

Welcome to Your Notesy App

Enter your notes here.

Enter a note

Add Note

To Delete your notes click below button

Delete Note

 Notesy.

THANK
YOU

