

INNOVATION. AUTOMATION. ANALYTICS

PROJECT ON

Code Refactoring and Bug Fixing

About me

I'm Golla Ravi Teja, a passionate Data Scientist. With expertise in data analysis, machine learning, I specialize in deriving actionable insights from complex datasets. I thrive on solving challenging problems and stay updated with the latest advancements in data science. Collaborative by nature, I enjoy working in dynamic teams to drive innovation.



Scenario

A team of enthusiastic data scientists embarked on a mission to develop a Note Taking application using Python, Flask, and HTML. However, their lack of experience in backend development has led to challenges in making the application fully functional. Recognizing your proficiency in backend development, you have been tasked with fixing the broken code and ensuring the application works seamlessly.

Task

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. Your goal is to fix the already existing codebase and make the application work as intended.



Identifying the Bugs in the Code given:

```
from flask import Flask, render template, request
2
     app = Flask( name )
4
     notes = []
     @app.route('/', methods=["POST"])
     def index():
         note = request.args.get("note")
8
         notes.append(note)
 9
         return render template("home.html", notes=notes)
10
11
12
     if name == ' main ':
13
         app.run(debug=True)
14
```

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

The application codes containing bugs, therefore to make the application run we need to make changes by identifying.



Identifying and correcting Bugs in python application program

```
O flask
File Edit Selection View Go Run Terminal Help
   EXPLORER
                                     X home.html
                         project > 🕏 app.py > 😚 index
  > OPEN EDITORS
                                 from flask import Flask, render template, request
  V FLASK
   > .env flask
                                app = Flask( name )
   > day 1_flask_intro
                                notes = []
   > day_2
   > day 3
                                 @app.route('/', methods=["POST", "GET"])
                                def index():
   > day_4
                                     if request.method == "POST":
   > day_5
                                         note = request.form.get("note")
   project
                                         notes.append(note)
    > .env_project
                                    return render template("home.html", notes=notes)
     home.html
                                if name == ' main ':
                                     app.run(debug=True)
    app.py
```

This is the code snippet after identifying bugs in python application program.



Identifying and correcting the Bugs in the HTML Code:

```
₽ flask
File Edit Selection View Go Run Terminal Help
                                         home.html X
   EXPLORER
                         app.py
                         project > templates > ♦ home.html > ♦ html > ♦ body
 > OPEN EDITORS
                                <!DOCTYPE html>
 ∨ FLASK [ ☐ ☐ O ☐
                                <html lang="en">
   > .env_flask
   > day_0
                                    <meta charset="UTF-8">
   > day_1_flask_intro
                                    <meta name="viewport" content="width=device-width, initial-scale=1.0">
   > day_2
                                    <title>Notes App</title>
   > day_3
                                </head>
                                <body>
                            8
   > day_4
                                    <h1>Notes</h1>
   > day_5
   ∨ project
                                    <form method="post" action="/">
    > .env_project
                                        <label for="note">Add a Note:</label>

✓ templates

                                        <input type="text" name="note" required>
     home.html
                                        <button type="submit">Add</button>
                                    </form>
    app.py
                                    <111>
                                        {% for note in notes %}
                                             {| note | } 
                                        {% endfor %}
                                    </body>
                                </html>
```

This is the HTML code after identifying & correcting the bugs.



Developing Output



Notes Application

Add a Note:

- hello
- hello
- hello
- hello
- hello
- Ravi
- teja
- teja



THANK YOU



