



INNOMATICS RESEARCHLABS





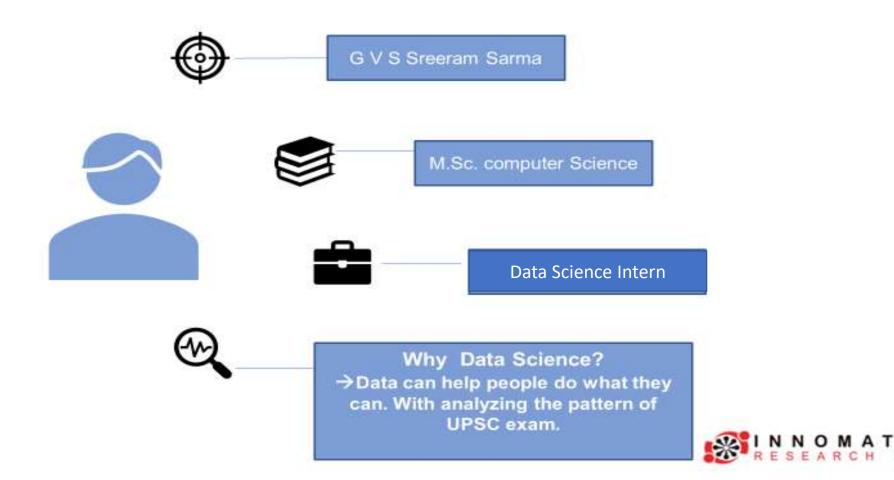
PROJECT ON

CODE REFACTORING AND BUG FIXING

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About me



OBJECTIVE OF THE PROJECT

- To find the Bugs in the Note Making application AND.
- To fix the Existing Code and Make the application to work intended.



Initial Code:

```
app.py - G:\DS\DataSets\internship\note_taking_app\app.py (3.11.5) —
File Edit Format Run Options Window Help
from flask import Flask, render_template, request

app = Flask(__name__)

notes = []
@app.route('/', methods=["POST"])
def index():
    note = request.args.get("note")
    notes.append(note)
    return render_template("home.html", notes=notes)

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

```
!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>
     <l
     {% for note in notes%}
         {li>{{ note }}
     {% endfor %}
     </body>
  </html>
```



Identify Bugs

- 1. There are some missing parts in HTML file which defines the functionality of the form.
- 2.Here we can observe that "GET" method is missing
- 3. In Index() default "GET" method is executing and NONE is getting appended.

```
notes = []
@app.route('/', methods=["FOST"])
def index():
    note = request.args.get("note")
    notes.append(note)
    return render_template("home.html", notes=notes)

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

```
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from flask import Flask, render_template

app = Flask(__name__)

notes = []

@app.route('/', methods=["POST"])

def index():

note = request args get("note")
```

Note-Book

Enter a note Add Note

None



RESOLUTION:

- 1.We can fix this by adding"/" in action attribute in the form ,"POST" in method name with type="submit" In button tag.
- 2.We can resolve the "Method not allowed" by providing Request method "GET".
- 3. The values must be appended only when Method "POST" is requested.

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

```
5     notes = []
6     @app.route('/', methods=["GET","POST"])
```

```
def index():
    if request.method=="POST":
        note = request.form.get("note")
        hotes.append(note)
    return render_template("home.html", notes=notes)
```



FIXED CODE

```
home.html X 💠 app.py
note_taking_app > templates > ♦ home.html > ♦ html > ♦ body
  1 <!DOCTYPE html>
 2 <html lang="en">
         <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>
 11 ul {
        columns: 2;
        -webkit-columns: 2;
        -moz-columns: 2;
         <form action="/" method="POST">
              <h1 style= "text-align:center;" >Note-Book</h1>
              <div align="center">
                 <input type="text" name="note" placeholder="Enter a note" size="50" style="text-align:center;" >
                 <button>Add Note</putton>
```



CONCLUSION:

- The Note Making Application ("Note-Book") was not working as expected.
- By Identifying , Fixing Bugs and Refactoring the code.
- Final OutCome:

Note-Book

Enter a note Add Note

- · Hello, Innomatics
- · Course: Data Science
- · Code Refactoring and Bug Fixing
- 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 Tal Application. Document all identified bugs during the debugging process. Remember, t about recreating the app from scratch. Your goal is to fix the already existing codebase application work as intended.
 - More Details: The application's home route contains a text field and a button. Users ca
 and all the notes should be displayed as an unordered list below the text field on the sa





THANK YOU



