**Code Refactoring and Bug Fixing**

**of a Note Taking Application**

**Introduction:**

Using note taking application users can add a note, and all the notes will be displayed as an unordered list below the text field on the same page.

**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.

**Task:**

Refactoring the existing codebase and ensuring the proper functioning of the Note Taking Application.

**Codebase**:

A python file named ‘app.py’ and a templates folder consisting a HTML file named ‘home’ were provided.

* The codebase in python file involved four steps-

1. Import Flask, request and render template libraries.
2. Create a Flask object (app) and pass \_\_name\_\_.
3. Create a route (‘/’) and bind it to a function (index).
4. Run the application.

* The HTML file consisted of a head and body tag. The body tag comprised of a form tag with action attribute, input tag with type, name and placeholder attributes, button tag and ul tag.

**Report:**

Bug Detected –

* The root path in the action attribute of HTML file was missing.
* The route used ‘POST’ method to handle the request. Giving HTML 405 error ‘Method Not Allowed’ for the requested URL.

Bug Fixing –

* Mentioned the root path ‘/’ in action attribute of the HTML file.
* Corrected to “GET” method to handle the request.

After fixing the bug the application is running successfully.