

REPORT ON CODE REFACTORING AND BUG FIXING

BUG	ISSUE	SOLUTION
Method Not Allowed <small>The method is not allowed for the requested URL.</small>	The method specified in the route decorator is "POST", but it should be "GET" since we want to handle the rendering of the initial page and form submission.	We have to change the code from (<code>@app.route('/',methods=["POST"])</code>) to (<code>@app.route('/',methods=["GET"])</code>) .
Incorrect Form Method in HTML code	The form in the HTML code does not specify a method, which defaults to "GET". However, to handle form submission, it should be "POST" to send to the server.	We have to add 'method='POST' to the '<form>' tag in the HTML code.
<div> <input type="text" value="Enter a note"/> <input type="button" value="Add Note"/> </div> <ul style="list-style-type: none"> • None • data analysis • None • None 	In the Python code, the 'request.args' is used to get form data, but for form submissions, it should be 'request.form'. If the form method is not specified or set to GET, and the server code uses request.args, the form data will not be properly retrieved, leading to unexpected behaviour. The browser might show the URL with the form data appended as query parameters, which is not the standard behaviour for form submissions.	We need to change 'note=request.args.get("note")' to 'note=request.form.get("note")'. request.args: This attribute in Flask is used to access the query parameters in the URL for a request. It is suitable for retrieving data from GET requests where parameters are appended to the URL. request.form: This attribute is used to access the data submitted through an HTML form, which typically happens with POST requests. Form data is sent in the body of the request, not in the URL.
<div> <input type="text" value="Enter a note"/> <input type="button" value="Add Note"/> </div> <ul style="list-style-type: none"> • None • data analysis • None • None • data science • • • 	Add "required" Attribute to Input Field: In the Python code, the request.args is used to get form data, but for form submissions, it should be request.form.	We have to add required to the '<input>' tag to make it mandatory.
<div> <input type="text" value="Enter a note"/> <input type="button" value="Add Note"/> </div> <ul style="list-style-type: none"> • None • data analysis • None • None • data science • • • 	Check for Non-Empty Note Before Appending: Issue: There is no check to ensure that the note is not empty before appending it to the notes list.	We have to add a conditional check to ensure that the note is not empty before appending it to the list.