Flask and MongoDB Assignment

# 1. /api Route Returning JSON List

We created a Flask route '/api' that reads data from a file named data.json and returns it as JSON.

Code Snippet:

@app.route('/api')  
def api():  
 with open("data.json", "r") as file:  
 data = json.load(file)  
 return jsonify(data)

Sample Output (from browser):

http://localhost:5000/api → Displays JSON list.

Add screenshot here: [API Screenshot]

# 2. Form Submission to MongoDB Atlas

A form is created that takes Name and Email. Upon successful submission, data is inserted into MongoDB Atlas.

On success, user is redirected to a confirmation page. On error, the same form shows the error.

Code Snippet:

@app.route('/', methods=["GET", "POST"])  
def form():  
 if request.method == "POST":  
 try:  
 name = request.form['name']  
 email = request.form['email']  
 data = {"name": name, "email": email}  
 collection.insert\_one(data)  
 return redirect(url\_for('success'))  
 except Exception as e:  
 flash(f"Error: {str(e)}")  
 return render\_template("form.html")  
 return render\_template("form.html")

Add screenshots:

- Form Page

- Success Page

- MongoDB Atlas document

# 3. GitHub Repository Link

https://github.com/yourusername/flask-mongo-assignment (replace with your actual link)

# 4. Commands Used

- git init  
- git add .  
- git commit -m "Initial commit"  
- git remote add origin <repo\_url>  
- git push -u origin main  
- python app.py

## Note:

Replace screenshots placeholders with actual images before submission.