# Flask + MongoDB Atlas Assignment

## 1. Flask API Route

A Flask route `/api` was created that reads data from a backend file (`data.json`) and returns it as a JSON response.

Code snippet:

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

## 2. Frontend Form & MongoDB Integration

A frontend form (`form.html`) was created that allows users to submit their name and email. When submitted, the data is inserted into MongoDB Atlas using PyMongo. If successful, the user is redirected to a success page. If there is an error, it is displayed on the same page.

Code snippet:

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

## 3. Success Page

If the data is submitted successfully, the user is redirected to a success page displaying:

"Data submitted successfully ✅"

## 4. Setup Instructions

1. Install Flask: pip install flask

2. Install PyMongo: pip install pymongo

3. Replace MongoDB connection string in app.py with your Atlas connection string.

4. Run application: python app.py