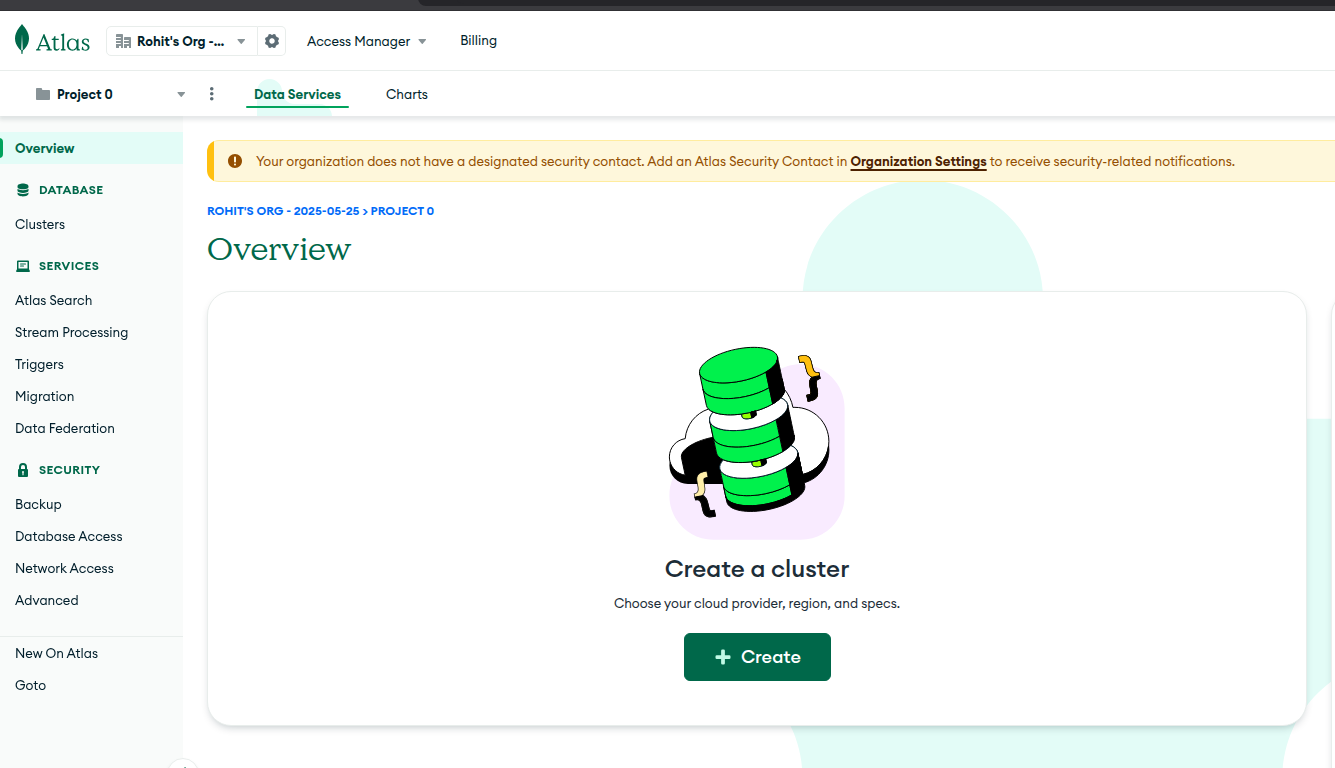
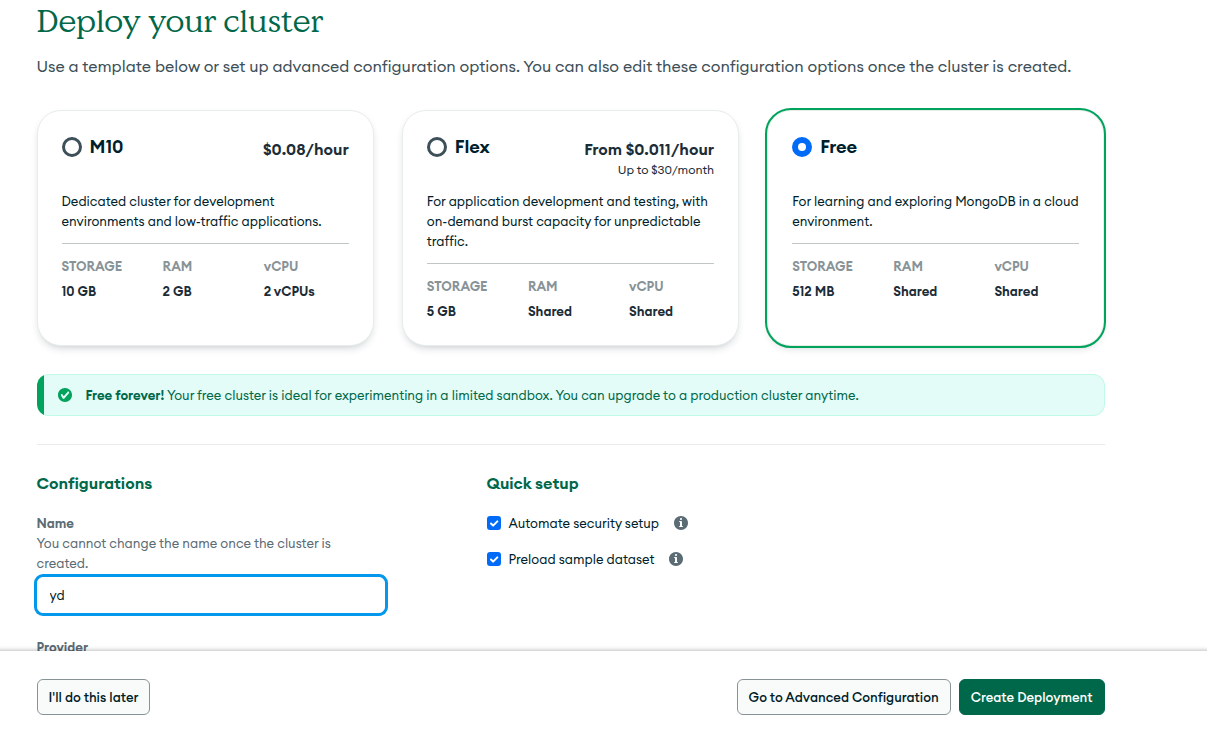
**Mongo DB**

1. **Creating cluster**

****

****

**Project Structure**

Files/

│

├── app.py

├── frontend.py

├── data.json

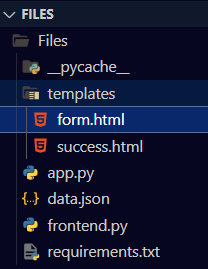
├── templates/

│ ├── form.html

│ └── success.html

├── requirements.txt

└── static/



**1. data.json**

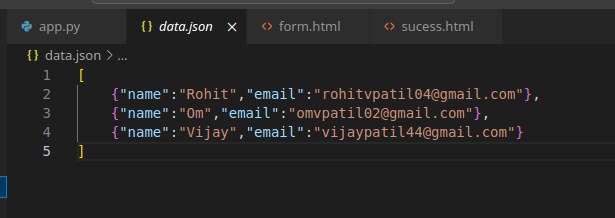
[

{"name": "Rohit", "email": "rohitvpatil04@gmail.com"},

{"name": "Om", "email": "omvpatil02@gmail.com"},

{"name": "Vijay", "email": "vijaypatil44@gmail.com"}

]



**2. app.py**

from flask import Flask, jsonify, request

import json

import pymongo

from pymongo.errors import PyMongoError

from urllib.parse import quote\_plus

from flask\_cors import CORS

app = Flask(\_\_name\_\_)

CORS(app, *resources*={*r*"/\*": {"origins": "http://localhost:5000"}})

# MongoDB Atlas Configuration

username = quote\_plus("rohitvpatil3")

password = quote\_plus("Rohitpatil@1")

MONGO\_URI = *f*"mongodb+srv://{username}:{password}@yd.nldhork.mongodb.net/?retryWrites=true&w=majority&appName=yd"

client = pymongo.MongoClient(MONGO\_URI)

db = client['yd']

collection = db['submissions']

# Route to serve data from JSON file

@app.route('/api', *methods*=['GET'])

*def* get\_data():

    try:

        with open('data.json') as file:

            data = json.load(file)

        return jsonify(data)

    except FileNotFoundError:

        return jsonify({"error": "Data file not found"}), 404

# Route to handle form submission

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

*def* submit():

    data = request.get\_json()

    if not data or 'name' not in data or 'email' not in data:

        return jsonify({"error": "Invalid data"}), 400

    name = data['name']

    email = data['email']

    try:

        collection.insert\_one({"name": name, "email": email})

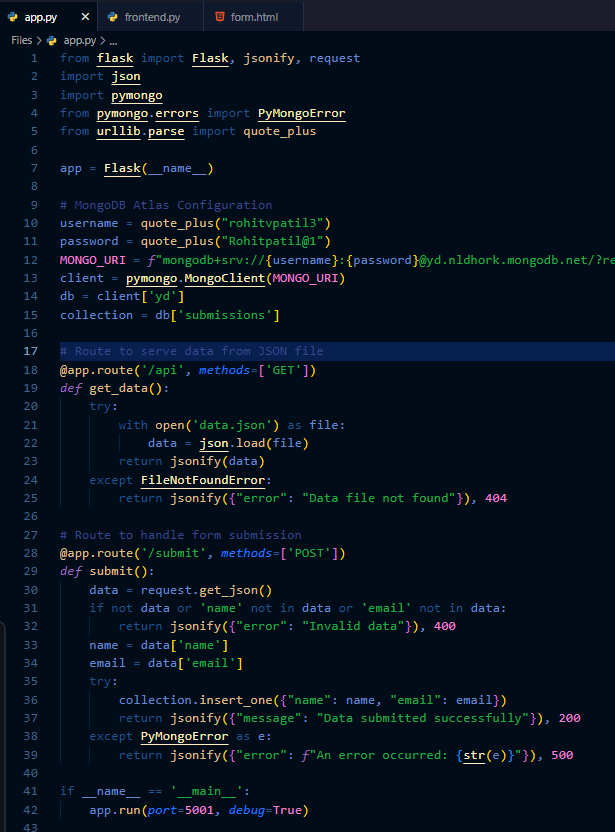
        return jsonify({"message": "Data submitted successfully"}), 200

    except PyMongoError as e:

        return jsonify({"error": *f*"An error occurred: {str(e)}"}), 500

if \_\_name\_\_ == '\_\_main\_\_':

    app.run(*port*=5001, *debug*=True)



**3. frontend.py**

from flask import Flask, render\_template

app = Flask(\_\_name\_\_, *template\_folder*='templates')

@app.route('/')

*def* form():

    return render\_template('form.html')

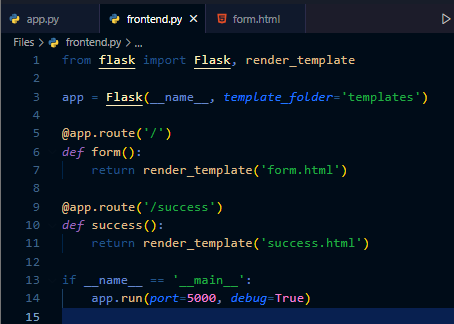
@app.route('/success')

*def* success():

    return render\_template('success.html')

if \_\_name\_\_ == '\_\_main\_\_':

    app.run(*port*=5000, *debug*=True)



**4. templates/form.html**

<!DOCTYPE html>

<html>

<head><title>Submit Data</title></head>

<body>

  <h2>Submit Your Info</h2>

  {% if error %}

    <p style="color:red;">{{ error }}</p>

  {% endif %}

  <form id="dataForm">

    Name: <input type="text" id="name" name="name" required><br><br>

    Email: <input type="email" id="email" name="email" required><br><br>

    <input type="submit" value="Submit">

    <a href="http://localhost:5001/api"><button type="button">View Data</button></a>

  </form>

  <p id="error" style="color:red;"></p>

  <script>

*const* form = document.getElementById('dataForm');

*const* errorPara = document.getElementById('error');

    form.addEventListener('submit', async (*e*) *=>* {

*e*.preventDefault();

      errorPara.textContent = '';

*const* name = document.getElementById('name').value;

*const* email = document.getElementById('email').value;

      try {

*const* response = await fetch('http://localhost:5001/submit', {

          method: 'POST',

          headers: {

            'Content-Type': 'application/json'

          },

          body: JSON.stringify({ name, email })

        });

*const* result = await response.json();

        if (response.ok) {

          window.location.href = '/success';

        } else {

          errorPara.textContent = result.error || 'An error occurred';

        }

      } catch (error) {

        errorPara.textContent = 'Failed to submit data: ' + error.message;

      }

    });

  </script>

</body>

</html>



**5. templates/success.html**

<!DOCTYPE html>

<html>

<head><title>Success</title></head>

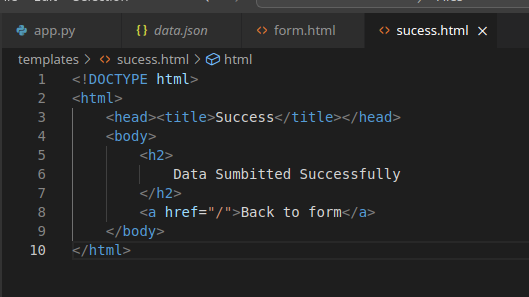
<body>

<h2>Data submitted successfully</h2>

<a href="/">Back to form</a>

</body>

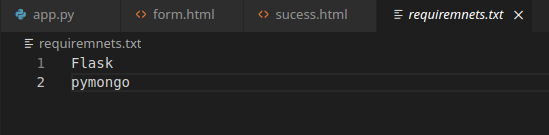
</html>



**5. requirements.txt**

Flask

Pymongo



**Run the App**

**1. Install dependencies**

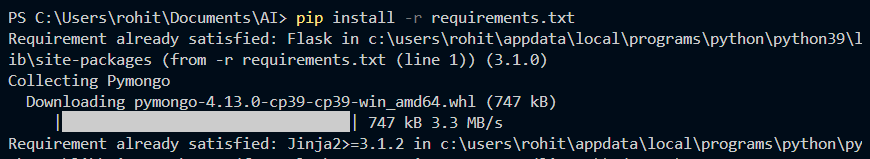
pip install -r requirements.txt

**2. Run the Flask server**

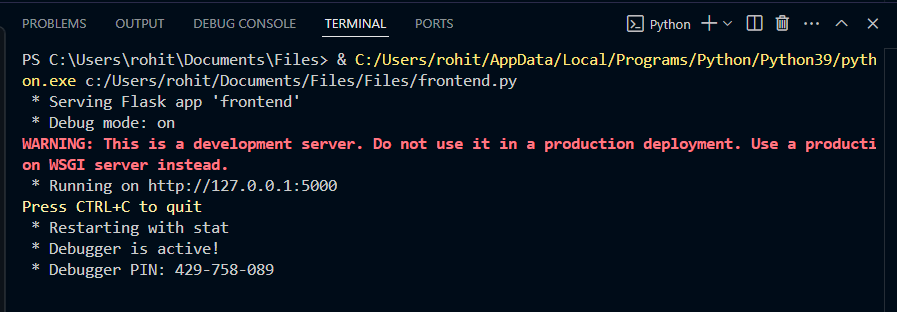
python app.py

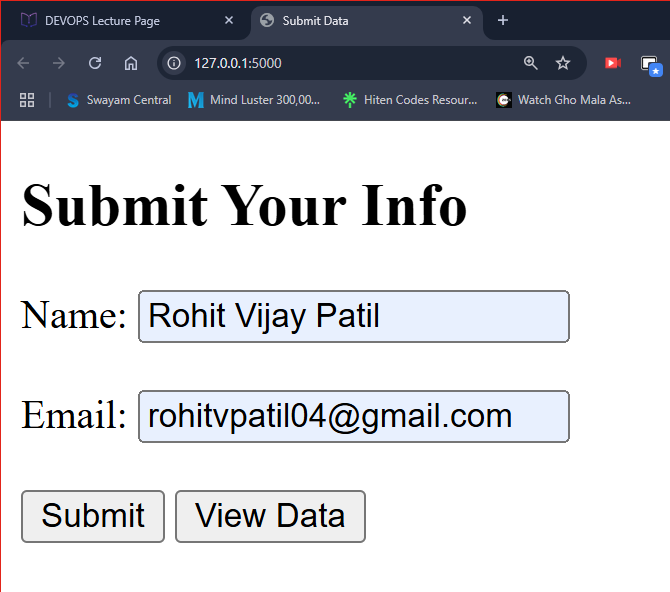
**3. Access the app:**

* Form: [http://localhost:5000](http://localhost:5000/)
* API: <http://localhost:5000/api>

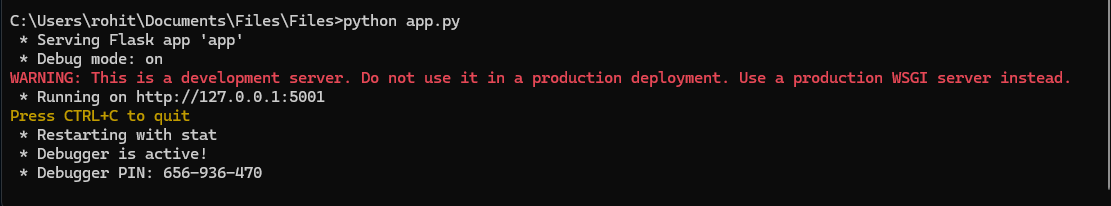


Frontend Running :

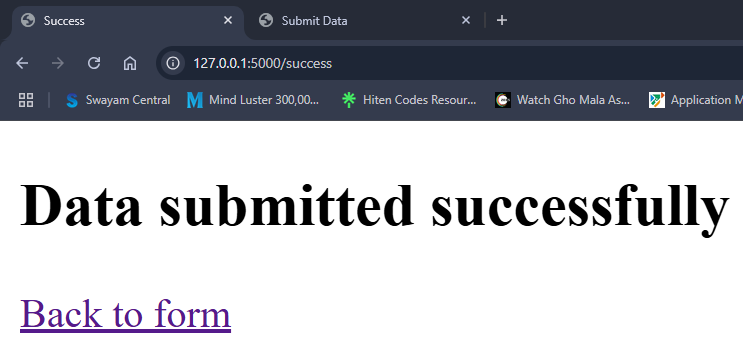
****

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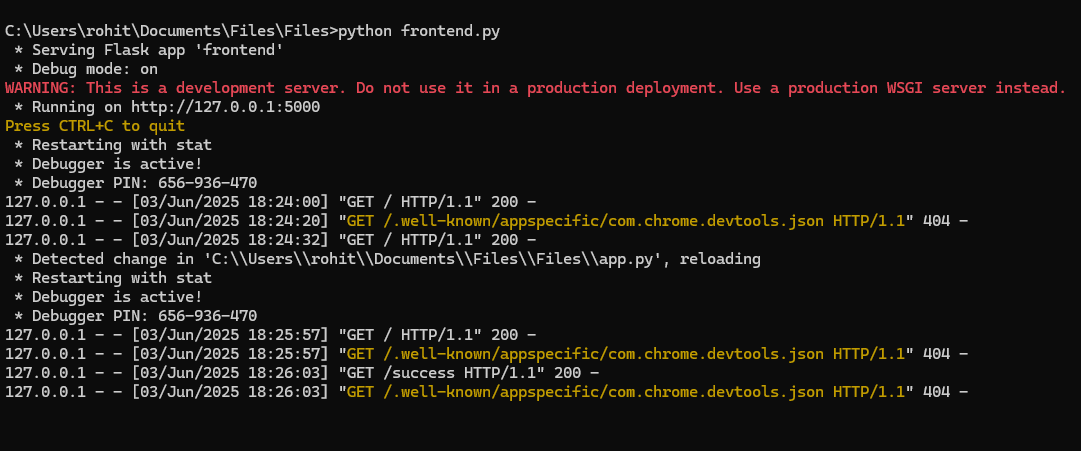
**Run the backend server:**

****

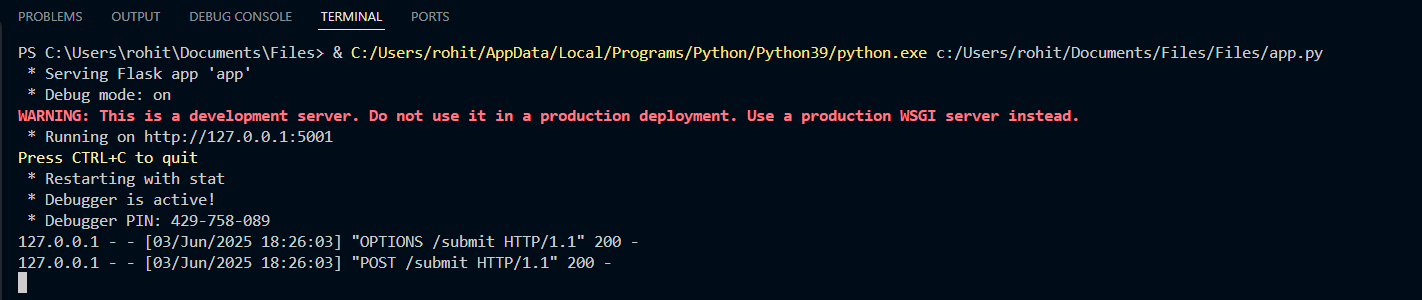
Data Gets Successfully inserted.



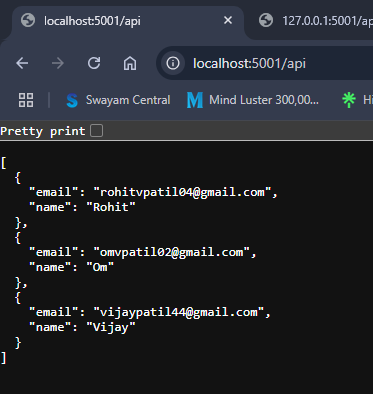
Frontend Console



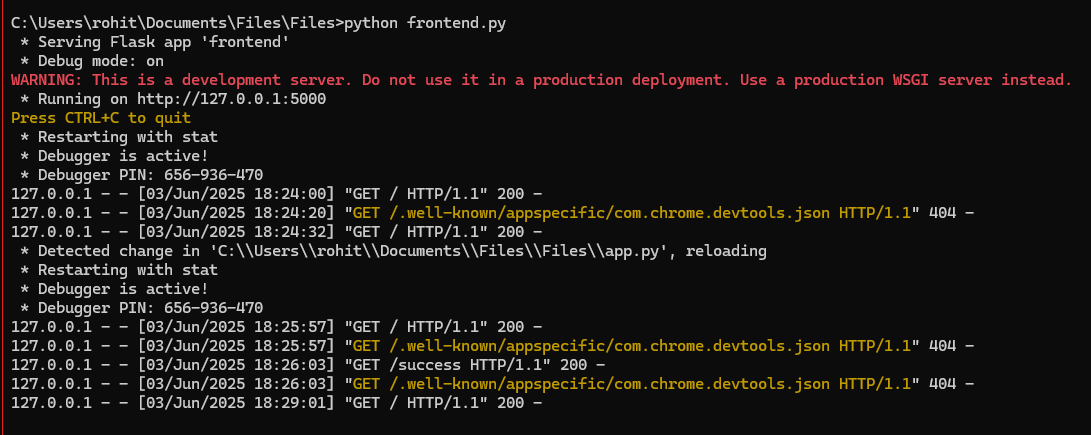
Backend Console



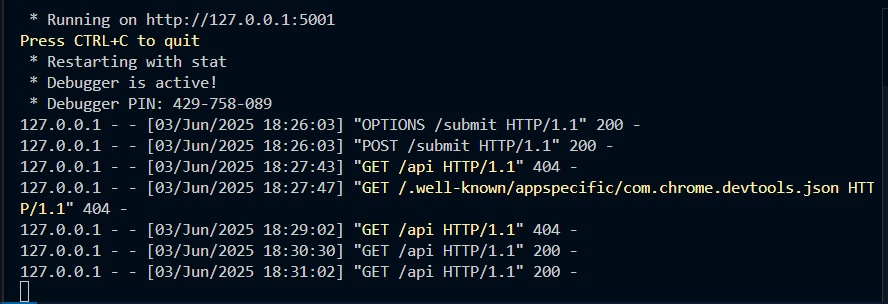
Click on View Data button in frontend to view data.json file data.



Backend Console



Frontend Console



Mongo DB

