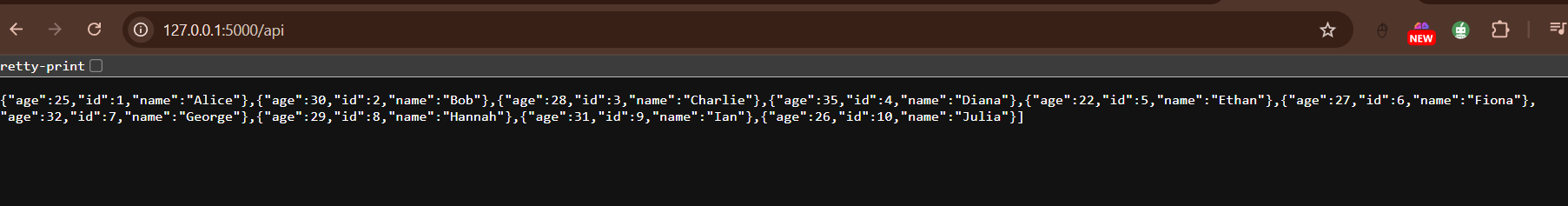
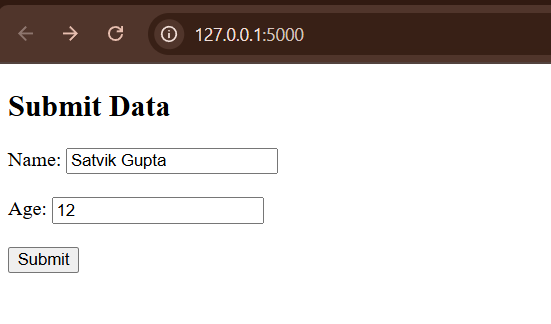
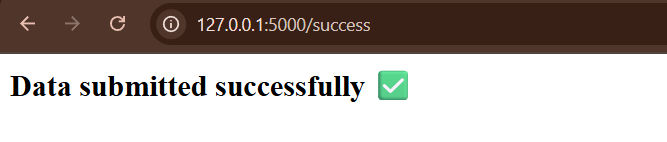
Assignment-3

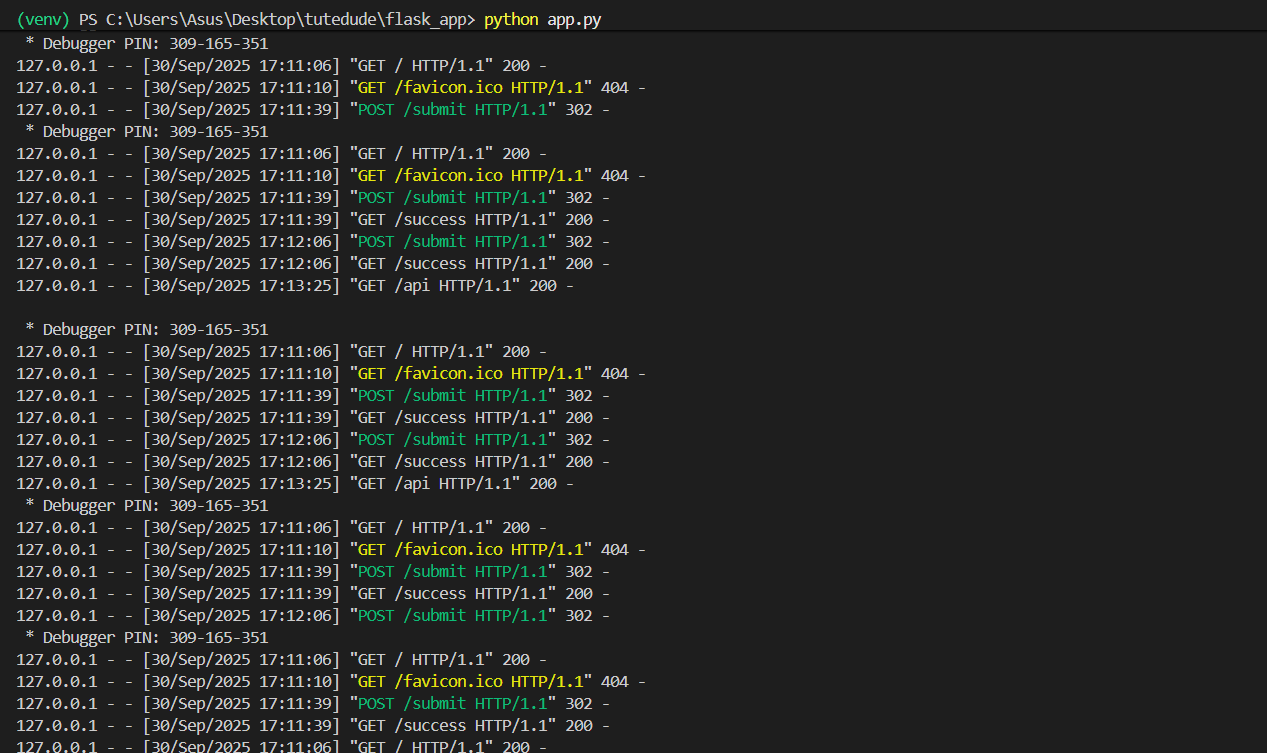
1. Create a Flask application with an /api route. When this route is accessed, it should return a JSON list. The data should be stored in a backend file, read from it, and sent as a response.

Ans->  


2. Create a form on the frontend that, when submitted, inserts data into MongoDB Atlas. Upon successful submission, the user should be redirected to another page displaying the message **"Data submitted successfully"**. If there's an error during submission, display the error on the same page without redirection.

Ans->  






Code:

from flask import Flask, jsonify, render\_template, request, redirect, url\_for

import json

from pymongo import MongoClient

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

# ✅ MongoDB Atlas Connection (replace <username>, <password>, <cluster-url>)

client = MongoClient("mongodb+srv://tutedude\_3\_assignment:Satvik12,@tutedude.14tqnmr.mongodb.net/")

db = client["flask\_demo"]

collection = db["users"]

# Route 1: API - return JSON data from file

@app.route("/api")

def api():

with open("data.json", "r") as f:

data = json.load(f)

return jsonify(data)

# Route 2: Form Page

@app.route("/")

def form\_page():

return render\_template("index.html")

# Route 3: Handle Form Submission

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

def submit():

try:

name = request.form["name"]

age = int(request.form["age"])

# Insert into MongoDB

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

# Redirect on success

return redirect(url\_for("success"))

except Exception as e:

return render\_template("form.html", error=str(e))

# Route 4: Success Page

@app.route("/success")

def success():

return "<h2>Data submitted successfully ✅</h2>"

if \_\_name\_\_ == "\_\_main\_\_":

app.run(debug=True)