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.

app.py text.json

flask assignment > app.py > ...

```python
from flask import Flask, jsonify
import json

app = Flask(__name__)

@app.route('/api')
def home():

    data = json.load(open('text.json'))
    return jsonify(data)

if __name__ == '__main__':
    app.run(debug=True)

```

app.py text.json

flask assignment > text.json > ...

```json
{
    "name": "flask_assignment",
    "version": "1.0.0",
    "description": "A simple Flask application for assignment purposes.",
    "main": "app.py"
}
```

127.0.0.1:5000/api

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```
"description": "A simple Flask application for assignment purposes.",
"main": "app.py",
"name": "flask_assignment",
"version": "1.0.0"
```

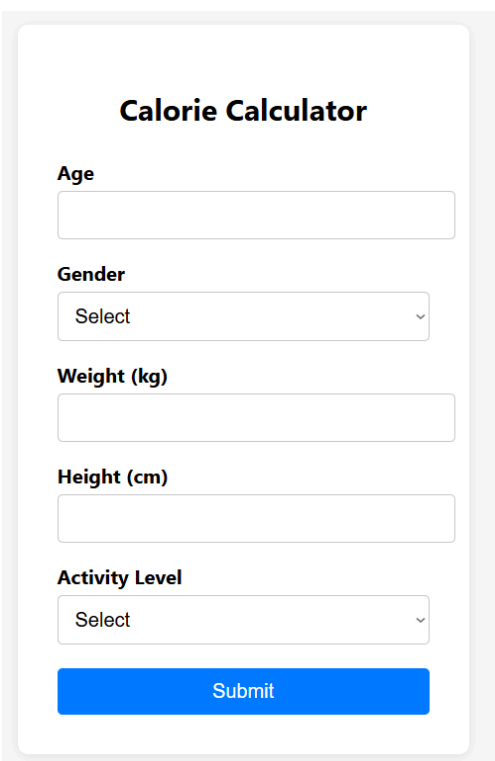

2. Create a form on the frontend that, when submitted, inserts data into MongoDB Atlas. Upon successful submission, the user should be redirected to another page displaying the message **"Data submitted successfully"**. If there's an error during submission, display the error on the same page without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

flask assignment > 2 > frontend > app.py > ...

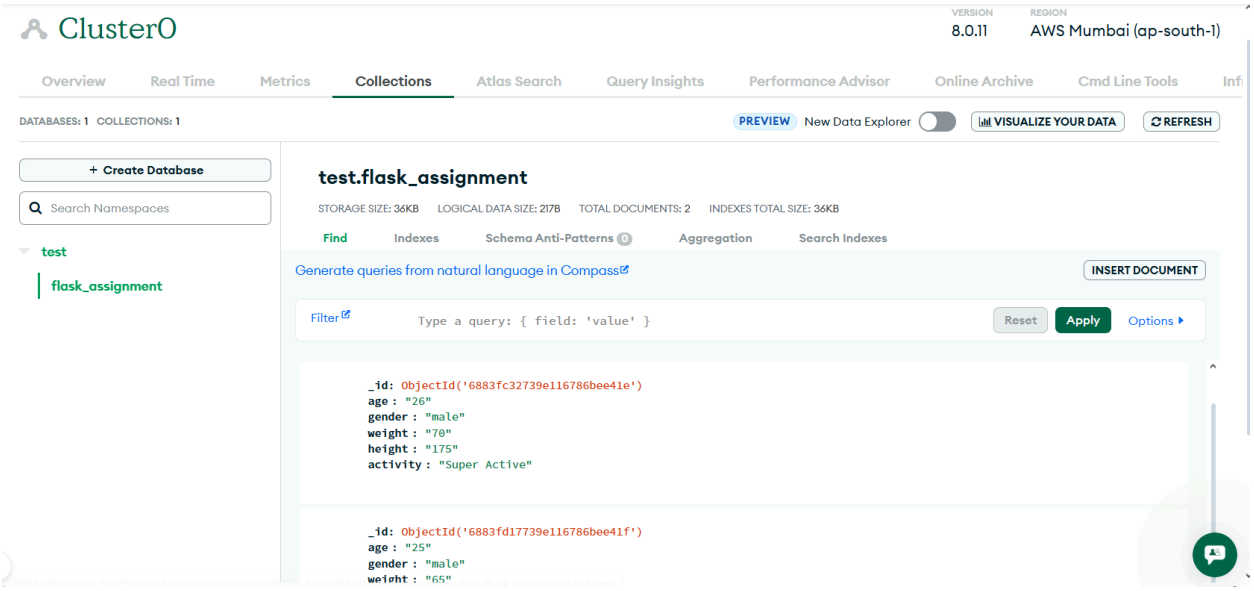
```python
from flask import Flask, render_template, request
import requests

BACKEND_URL = 'http://localhost:6000'

app = Flask(__name__)

@app.route('/')
def home():
    return render_template('index.html')

@app.route('/submit', methods=['POST'])
def submit():
    form_data = dict(request.form)
    requests.post(BACKEND_URL + '/submit', json=form_data)
    return "Data Submitted Successfully"

if __name__ == '__main__':
    app.run(host = '0.0.0.0', port = 5000, debug=True)
```

flask assignment > 2 > backend > app.py > ...

```python
from flask import Flask, request
from pymongo.mongo_client import MongoClient
from pymongo.server_api import ServerApi
from dotenv import load_dotenv
import os

load_dotenv()
MONGO_URI = os.getenv('MONGO_URI')  # Load the MongoDB URI from the .env file

uri = MONGO_URI  # Ensure you have the correct MongoDB URI in your .env file

client = MongoClient(uri, server_api=ServerApi('1'))

db = client.test
collection = db['flask_assignment']

app = Flask(__name__)

@app.route('/submit', methods=['POST'])
def submit():
    form_data = request.get_json()
    collection.insert_one(form_data)

    return "Data Submitted Successfully"

if __name__ == '__main__':
    app.run(host = '0.0.0.0', port = 6000, debug=True)
```



Data Submitted Successfully



Submission Guidelines -: Attach Screenshots or command along with explanation and submit in doc(google doc or microsoft doc) format also attach github repo link