# Documentation – Flask + MongoDB Assignment

• Step 1: Create Project Folder

mkdir flask-mongo-assignment
cd flask-mongo-assignment

Step 2: Create Virtual Environment

```
python -m venv venv
venv\Scripts\activate # for Windows
```

• Step 3: Install Required Libraries

pip install flask pymongo dnspython

- Step 4: Create data. json File
- Inside flask-mongo-assignment/, create file data.json with dummy user data:

```
[
    "name": "Pranay Dodiya",
    "role": "Full Stack Developer"
},
    {
    "name": "Amit Patel",
        "role": "Data Scientist"
}
]
```

• Step 5: Create templates Folder

mkdir templates

Step 6: Create index.html (inside templates/)

#### • Step 7: Create users.html (inside templates/)

# • Step 8: Create Main Flask File app.py

```
from flask import Flask, request, render_template,
redirect, url_for
from pymongo import MongoClient
app = Flask(__name__)
```

```
# # 
Replace your connection string> with actual
MongoDB Atlas connection string
client =
MongoClient("mongodb+srv://<username>:<password>@clus
ter0.mongodb.net/")
db = client["flask mongo db"]
collection = db["users"]
@app.route("/")
def index():
    return render template("index.html")
@app.route("/add user", methods=["POST"])
def add user():
    name = request.form["name"]
    role = request.form["role"]
    collection.insert_one({"name": name, "role":
role })
    return redirect(url for("users"))
@app.route("/users")
def users():
    users data = collection.find()
    return render template ("users.html",
users=users data)
@app.route("/api")
def api():
    users data = list(collection.find({}, {" id":
0 } ) )
    return {"users": users data}
if name == " main ":
    app.run(debug=True)
```

#### Step 9: Run Flask Server

```
py app.py
```

•  $/ \rightarrow User input form$ 

- $/users \rightarrow Displays all users$
- $/api \rightarrow Shows user data as JSON$

### . Explanation

- app.py → Flask app, handles form input, database insertion, and JSON reading.
- index.html → Frontend form where user enters data.
- **success.html** → Page displayed after form submission.
- data.json → Dummy dataset served at /data.