VIJAY M

MINI PROJECT -2

22/08/25

- 1. Create fastapi project along with sqllite to store username, password and role.
- 2. Create ASP.net c# project with MSSQL server as backend with two tables.
 - 2.1 one table to store the: ban account number, amount in account, created date.
 - 2.2 another table to store the customer details: name and age.
 - 2.3 each customer can have more than one accounts. link these tables via foreign key.
- 3. in c#, login api should call the fast api login api to check the usename, password correctness.
- 4. once the credentials are ok, then the jwt token should be generated and provided.
- 5. only user with admin access can insert customer and back account details.
- 6. create an account balance api, which receives username as input and privides the balance amount accross all the accounts.
 - 6.1 logged in user can view the balance amount .

Output:

FastApi

http://127.0.0.1:8000/add_user

```
Curl
 curl -X 'POST' \
    'http://127.0.0.1:8000/add_user' \
   -H 'accept: application/json' \
-H 'Content-Type: application/json' \
   -d '{
"Name": "sk",
"Password": "sk123",
    "Role": "user"
Request URL
 http://127.0.0.1:8000/add_user
Server response
Code
                 Details
200
                 Response body
                        "Name": "thalapathy",
"Role": "Admin"
                        "Name": "vijay",
"Role": "string"
                        "Name": "kamal",
"Role": "Admin"
```

http://127.0.0.1:8000/get_users

```
Curl
 curl -X 'GET' \
   'http://127.0.0.1:8000/get_users' \
   -H 'accept: application/json'
Request URL
 http://127.0.0.1:8000/get_users
Server response
Code
                Details
200
                Response body
                      "Name": "thalapathy",
"Role": "Admin"
                      "Name": "vijay",
"Role": "string"
                      "Name": "kamal",
"Role": "Admin"
                      "Name": "kamal",
"Role": "admin"
                      "Name": "vinal",
```

http://127.0.0.1:8000/get_userbyld/1

```
Curl
 curl -X 'GET' \
   'http://127.0.0.1:8000/get_userbyId/1' \
   -H 'accept: application/json'
Request URL
 http://127.0.0.1:8000/get_userbyId/1
Server response
Code
              Details
200
              Response body
                  "Name": "thalapathy", "Role": "Admin"
               Response headers
                 content-length: 36
                 content-type: application/json
date: Fri,22 Aug 2025 11:41:26 GMT
                 server: uvicorn
```

http://127.0.0.1:8000/login

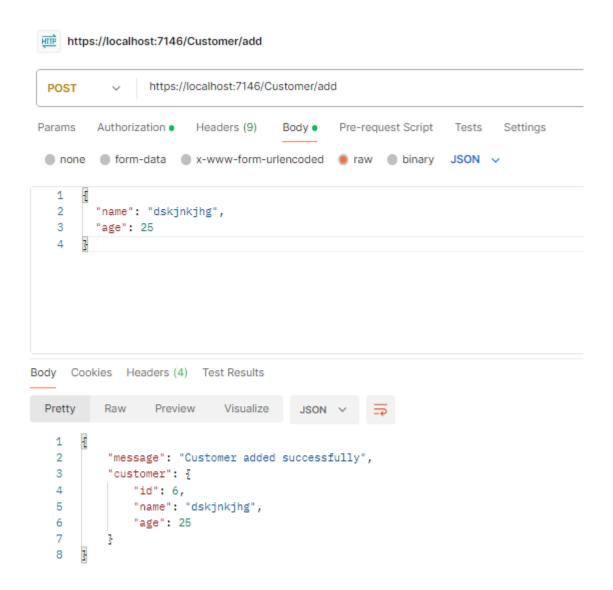
```
Curl
curl -X 'POST' \
   'http://127.0.0.1:8000/login' \
   -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
  "name": "thalapathy",
   "password": "12345"
Request URL
 http://127.0.0.1:8000/login
Server response
Code
              Details
200
              Response body
                 "Name": "thalapathy",
"Role": "Admin"
              Response headers
                 content-length: 36
                 content-type: application/json
date: Fri,22 Aug 2025 11:42:30 GMT
                 server: uvicorn
```

C#.net

https://localhost:7146/api/Auth/login

```
Responses
Curl
curl -X 'POST' \
   'https://localhost:7146/api/Auth/login' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
  "name": "thalapathy",
   "password": "12345"
Request URL
 https://localhost:7146/api/Auth/login
Server response
Code
             Details
200
             Response body
                "message": "Login successful",
                "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.e
              c29mdC5jb20vd3MvMjAwOC8wNi9pZGVudG10eS9jbGFpbXMvcm
              8nVGviuRohoeqhyUun51Jw",
                "data": {
                  "name": "thalapathy",
"role": "Admin"
```

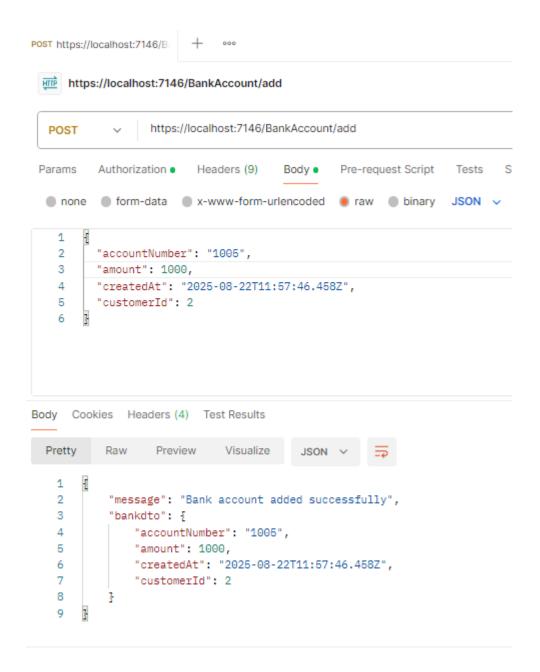
https://localhost:7146/Customer/add



Unauthorized

```
Curl
curl -X 'POST' \
  'https://localhost:7146/BankAccount/add' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
  "accountNumber": "string",
  "amount": 0,
"createdAt": "2025-08-22T11:57:46.458Z",
  "customerId": 0
Request URL
 https://localhost:7146/BankAccount/add
Server response
Code
            Details
401
             Error: response status is 401
Undocumented
            Response headers
               content-length: 0
               date: Fri,22 Aug 2025 11:57:48 GMT
               server: Kestrel
               www-authenticate: Bearer
```

https://localhost:7146/BankAccount/add



https://localhost:7146/BankAccount/all

```
Curl
 curl -X 'GET' \
   'https://localhost:7146/BankAccount/all' \
   -H 'accept: */*'
Request URL
 https://localhost:7146/BankAccount/all
Server response
              Details
Code
200
              Response body
                    "id": 1,
                    "accountNumber": "10005",
                    "amount": 1000,
"createdAt": "2025-08-22T06:50:45.204",
                    "customerId": 1,
                    "customer": {
                      "id": 1,
"name": "rajan",
"age": 23
                    "id": 2,
                    "accountNumber": "1005",
                    "amount": 10000,
"createdAt": "2025-08-22T06:53:26.257",
                    "customerId": 1,
                    "customer": {
                      "id": 1,
"name": "rajan",
"age": 23
                                              💹 🐠 💋
```

