

**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 username, 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 bank account details.
6. create an account balance api, which receives username as input and provides the balance amount across all the accounts.
  - 6.1 logged in user can view the balance amount .

### **Output:**

**FastApi**

**[http://127.0.0.1:8000/add\\_user](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"
  },
  {
    "Name": "sk",
    "Role": "user"
  }
]
```

[http://127.0.0.1:8000/get\\_users](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",
    "Role": "string"
  }
]
```

[http://127.0.0.1:8000/get\\_userbyId/1](http://127.0.0.1:8000/get_userbyId/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>

## Curl

```
curl -X 'POST' \
'https://localhost:7146/api/Auth/login' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "name": "thalapathy",
  "password": "12345"
}'
```

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

## Code

## 200

Response body

```
{
  "message": "Login successful",
  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1b2wudC5jb20vd3MvMjAwOw08Ni9pZGVudG10eS9jbGZpbXBvcm91bGVuIHRoeqhyUun51Jw",
  "data": {
    "name": "thalapathy",
    "role": "Admin"
  }
}
```

<https://localhost:7146/Customer/add>



https://localhost:7146/Customer/add

POST



https://localhost:7146/Customer/add

Params

Authorization ●

Headers (9)

Body ●

Pre-request Script

Tests

Settings



none



form-data



x-www-form-urlencoded



raw



binary

JSON ▾



```
1 {  
2   "name": "dskjnkjhg",  
3   "age": 25  
4 }
```

Body

Cookies

Headers (4)

Test Results

Pretty

Raw

Preview

Visualize

JSON ▾



```
1 {  
2   "message": "Customer added successfully",  
3   "customer": {  
4     "id": 6,  
5     "name": "dskjnkjhg",  
6     "age": 25  
7   }  
8 }
```

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

*Undocumented*

Error: response status is 401

##### Response headers

```
content-length: 0
date: Fri, 22 Aug 2025 11:57:48 GMT
server: Kestrel
www-authenticate: Bearer
```

<https://localhost:7146/BankAccount/add>



POST https://localhost:7146/B



https://localhost:7146/BankAccount/add

POST



https://localhost:7146/BankAccount/add

Params

Authorization ●

Headers (9)

Body ●

Pre-request Script

Tests

S



none



form-data



x-www-form-urlencoded



raw



binary

JSON



```
1 {
2   "accountNumber": "1005",
3   "amount": 1000,
4   "createdAt": "2025-08-22T11:57:46.458Z",
5   "customerId": 2
6 }
```

Body

Cookies

Headers (4)

Test Results

Pretty

Raw

Preview

Visualize

JSON



```
1 {
2   "message": "Bank account added successfully",
3   "bankdto": {
4     "accountNumber": "1005",
5     "amount": 1000,
6     "createdAt": "2025-08-22T11:57:46.458Z",
7     "customerId": 2
8   }
9 }
```

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

##### Code

##### Details

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
    }
  }
]
```

<https://localhost:7146/BankAccount/balance>



https://localhost:7146/BankAccount/balance

GET



https://localhost:7146/BankAccount/balance

Params

Authorization ●

Headers (7)

Body

Pre-request Script

Tests

Set

Type

Bearer Token



Token

The authorization header will be automatically generated when you send the request.

[Learn more about authorization](#)



Store your secrets with end-to-e

Body

Cookies

Headers (4)

Test Results

Pretty

Raw

Preview

Visualize

JSON



```
1 {
2   "name": "rajan",
3   "totalBalance": 11200
4 }
```