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= MONEYME EXAM WEB AND API PROJECT SETUP AND CONFIGURATIONS: =

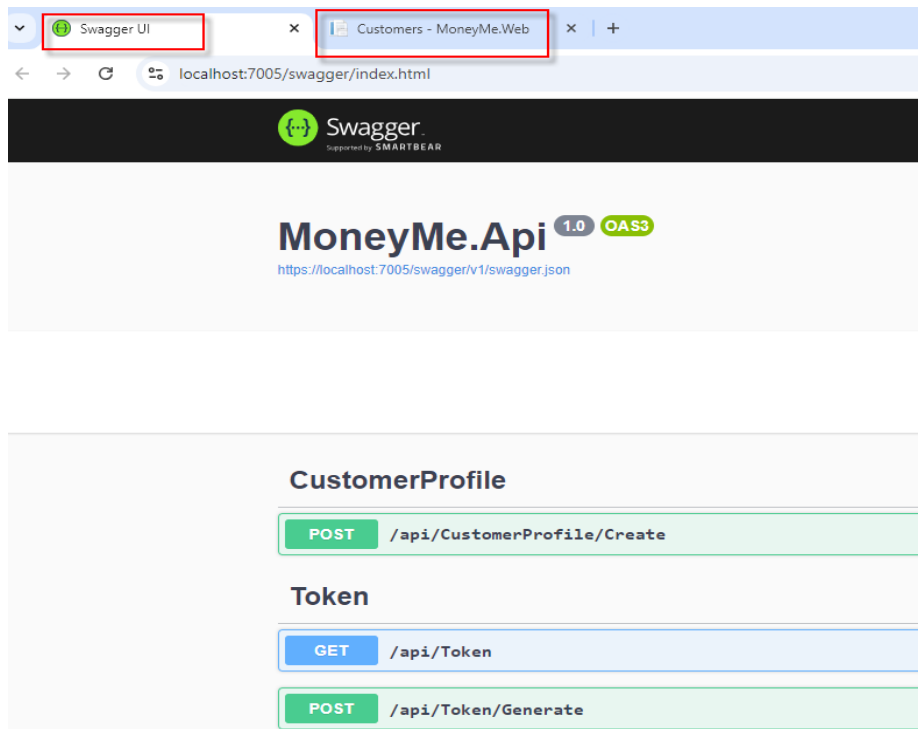
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A. TECHNOLOGY STACK USED:

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1. **.NET 8 MVC and REST API**
 2. **Filters** (for centralized exception handling)
 3. **Log4net** (for file-based exception logging mechanism)
 4. **xUnit** (for unit test)
 5. **Moq** (for mocking objects in unit test)
 6. **N-tier** design/architecture
 7. **JwtBearer** (for Token Generation in API)
 8. **Entity Framework Core 8**
 9. **Mapster** (for object-to-object mapping)

B. RUNNING THE APPLICATION (WEB and API):

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1. Restore the Database included (***MoneyMeDbExam_09232024.bak***)
 2. Apply necessary credentials after restore.
 3. 4 lookup tables are already pre-populated (***e.g. NamePrefixes, DomainBlacklist, MobileBlacklist, and Products***)
 4. The .Net Solution (***e.g. MoneyMe.Solution.sln***) is configured to run multiple projects, both Web and API at the same time once it is being Started.



5. Modify the folder paths in the "**Log4Net.config**" file located in the both "**\MoneyMe.Web\Configuration**" and "**\MoneyMe.API\Configuration**" folders, below sample:

```
<file value="C:\_PROJECTS\_SPROUT\_LOGS\Exception_.txt" />
```
6. Modify connection string value in the "**appsettings.json**" file for new data source dB server connectivity in both **MoneyMe.API** and **MoneyMe.Web**
7. All Product types (**e.g. A. B. and C**) Repayment/Loan Application computations lookup values are in the "**appsettings.json**" in **MoneyMe.Web** to be configurable for future changes.
8. Run first API below and Generate Token to be used for Authorization:

Use this test account in JSON format to generate token:

```
{
  "username": "Api.Test",
  "password": "M@n3yM3.@pi"
}
```

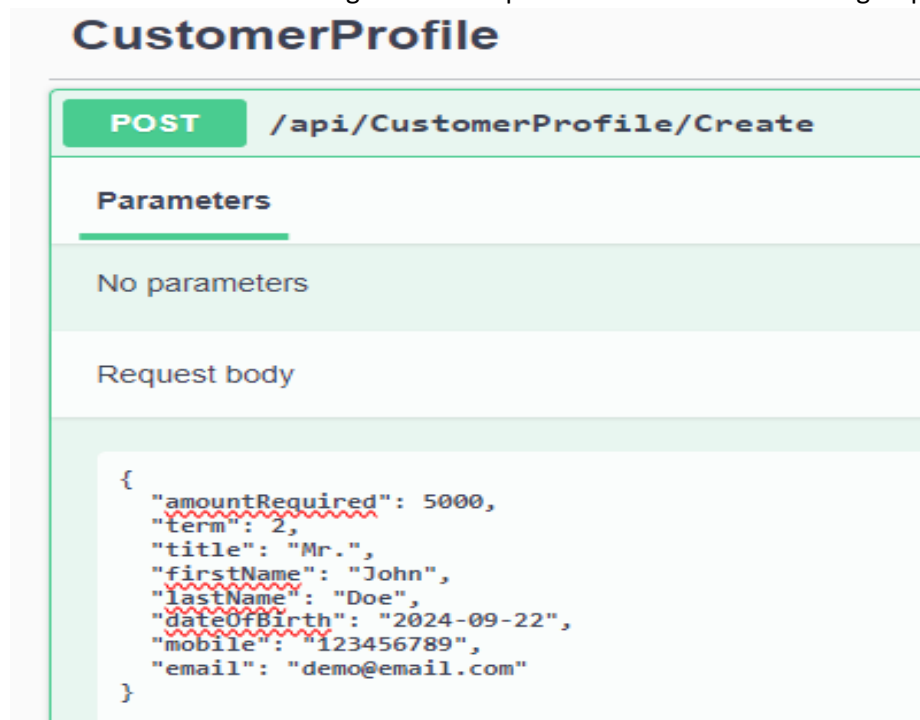

This should be the proper way to supply the token:

bearer

eyJhbGciOiJodHRwOi8vd3d3LnczLm9yZy8yMDAxLzA0L3htbGRzaWctbW9yZSNoYWJLXNoYTUxMmIiLCJ0eXciOiJpXGVzZW50IiwiaHR0cDovL3NjaGVtYXMubWljcm9zb2Z0LmNvbS93cy8yMDA4LzA2L2lkZW50aXR5L2NsYWltcy9yb2x1IjoiaWoiQWRtaW4iLCJleHAiOiE3MjcwNzIxMzN5JdTpK4U4o5fw_mcgtjoz8vDoSf2DSEb2H1lgK2DtN5Q3wfnEuYPmU1jjm dmDIQHx5FTrAZdmnn2VBu1Pkl11g

Then click Authorize button

10. We can now insert data using the API endpoint below with the following request body:



Sample request body in JSON format to use:

```
{
  "amountRequired": 5000,
  "term": 2,
  "title": "Mr.",
  "firstName": "John",
  "lastName": "Doe",
  "dateOfBirth": "2024-09-22",
  "mobile": "123456789",
  "email": "demo@email.com"
}
```

11. Upon successful execution, the response body will be a URL that will redirect the customer to a page similar to the exam requirements in the PDF file provided:

Code	Details
200	<div>Response body</div> <div><code>https://localhost:7058/CustomerProfile/QuoteCalculator/7</code></div> <div>Response headers</div> <div><code>content-type: text/plain; charset=utf-8 date: Mon,23 Sep 2024 15:14:48 GMT server: Kestrel</code></div>

Sample URL below:

<https://localhost:7058/CustomerProfile/QuoteCalculator/7>

12. Since both the API and Web applications are both running, the URL generated above can be directly pasted in browser and can view now the “***Quote Calculator***” page similar to the exam requirements in the PDF file provided:

←

→

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localhost:7058/CustomerProfile/QuoteCalculator/7

Quote Calculator

Product

ProductA

Amount Required

\$ 5000.00

Term

2 Month(s)

Title

Mr.

FirstName

John

LastName

Doe

DateOfBirth

09/22/2024

Mobile

123456789

Email

demo@email.com

Calculate Quote

[Back To Home](#)

13. Clicking the “**Calculate Quote**” button will redirect the customer to a page similar to the exam requirements in the PDF file provided:

Your Quote

Your information:

Name	John Doe
Mobile	123456789
Email	demo@email.com
Birthdate	9/22/2024

Finance details:

Finance Amount	5000.00
-----	over 12 months
Repayments From	2500.00
-----	monthly

Apply Now

| [Back To Quote Calculator](#) | [Back To Home](#)

14. Clicking the “**Apply Now**” button will have some validations below:

- The applicant must be at least 18 years old.
- Check for blacklisted mobile numbers.
- Check for blacklisted domain names.

15. After above 3 checks passed, the application will be saved in the database and the customer will be redirected to a **Customer Profile Home** page below which also can view the loans applied:

Customer Profile Home

AmountRequired	Term	Title	FirstName	LastName	DateOfBirth	Mobile	Email		
5000.00	2	Mr.	John	Doe	9/22/2024	123456789	demo@email.com	Quote Calculator	Loan Details
5000.00	36	Mr.	John 1	Doe 1	9/22/2004	0422111333	layton@gmail.com	Quote Calculator	Loan Details

Loan Details

Customer Profile

AmountRequired	5000.00
Term	36
Title	Mr.
FirstName	John 1
LastName	Doe 1
DateOfBirth	9/22/2004
Mobile	0422111333
Email	layton@gmail.com

Loan Applications

Product Name	Repayment	Total Repayment
ProductC	156.68	5640.55
ProductB	1868.70	11212.21

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