

MoneyMe Technical Challenge

Mid - Senior C# .Net Software Engineer

REQUIRED SKILLS:

- OOP
- C#.Net
- ASP.Net Web API (.Net Framework/.Net Core)
- Automated Unit Testing
- SQL
- Great coding practice

1. Create an ASP.Net Web API(.Net Framework/.Net Core) that can accept the following request

```
{
  "AmountRequired": "5000",
  "Term": "2"
  "Title": "Mr."
  "FirstName": "John",
  "LastName": "doe",
  "DateOfBirth": "1900-01-01"
  "Mobile": "0422111333",
  "Email": "layton@flower.com.au"
}
```

The API should save the data and then return a URL that will redirect the customer to a page like the one shown in step 2. In this scenario, the API is going to be consumed by a third party after which the customer is going to be redirected to the MoneyMe website.

- Saving the request with the same FirstName, LastName and DateOfBirth at least once should generate the same redirect URL.

2. Add a term slider beneath the amount slider. This should enable the customer to select the duration (in months) of the loan being requested.

- Add 'Product' dropdownlist above the amount slider. Put 3 products: [ProductA, ProductB & ProductC].
 - If 'ProductA' is selected, the loan is interest-free
 - If 'ProductB' is selected, the first 2 months are interest-free. Make the duration to

be 6 months minimum.

- If 'ProductC' is selected, there's no interest-free.

*** Please make your code as flexible and extensible as possible.

The fields should be pre-populated with the details submitted in step 1, please add the DateOfBirth in the UI.

Quote calculator

\$5,000

\$2,100

How much do you need?

\$15,000

Title

Mr. ▾

First name

Last name

Your email

Mobile number

Calculate quote

Quote does not affect your credit score

- After clicking calculate quote, it should redirect the user to a page like the one below. The repayment amount should be computed using a formula like the PMT excel function. Repayment frequency is monthly.

- Clicking edit should enable the customer to change their application details including loan amount and duration.

Your quote

Your information

Edit

Name

Wagtest Wagtest

Mobile

0477095252

Email

wagtesttest@test.com

Finance details

Edit

Finance amount

\$5,000

over 24 months

Repayments from

\$56.15

Weekly

Apply now

Total repayments \$5,839.60, made up of an establishment fee of \$300.00, interest of \$539.60. The repayment amount is based on the variables selected, is subject to our assessment and suitability, and other important terms and conditions apply.

4. Clicking Apply Now should run simple checks:

- The applicant must be at least 18 years old. Ex: if today is March 31, and applicant's DOB is March 30 and he/she is 17 years old today, the applicant could only be accepted tomorrow.
- Please create a list of blacklisted mobile numbers. The mobile number of the applicant must not be in the list for him/her to be accepted.
- Please create a list of blacklisted domain names. The email's domain must not be in the list for him/her to be accepted.

*After above 3 checks passed, the customer is redirected to a success page. It should also update the application with the repayment amount, establishment fee and total interest and save any changes done to the form.

** All data must be saved to database.

** You can add additional features that you think will make the website better and apply UX concepts that will make it easier for the user to use the website.