Candidate test exercise

You will be required to write a small part of a payment application to demonstrate your skills.

Application information

It's an application that simplifies client's payments. In order to simplify payments, Merchant generates the payment link where he provides all information about the order and then sends it to the client via SMS or by Email.

Client receives the link and reads welcome text. On this page he verifies order data, selects payment method and then pays for the order. Once payment is done Merchant receives the information about it and then he can activate their services or deliver purchased products.

API Requirements

In order to make a payment with the credit card, user has to provide credit card information and it has to be validated.

Please create an API that validates credit card data.

Input parameters: Card owner, Credit Card number, issue date and CVC.

Logic should verify that all fields are provided, card owner field does not have other credit card information, credit card is not expired, number is valid for specified credit card type, CVC is valid for specified credit card type.

API should return credit card type in case of success: Master Card, Visa or American Express.

API should return all validation errors in case of failure.

Implement only 3 types of credit cards: Master Card, Visa and American Express.

Technical Requirements

Write application API using C# .NET Framework or .NET Core

Automated tests would be a bonus.