Assumption that Bank API takes:

public class ProcessPaymentRequestDTO

{

public int MerchantID { get; set; }

public long CardNumber { get; set; }

public DateTime ExpiryDate { get; set; }

public int Amount { get; set; }

public string Currency { get; set; }

public int CVV { get; set; }

}

Should use https protocol.

For improvement, provide merchant with password and hash it in database.

Processing Payment using Postman:

<http://localhost:64388/api/Request/ProcessPayment>

Post method:

Raw Payload as JSON:

{

MerchantID : 5,

CardNumber: 5555444433332222,

ExpiryDate: '12/11/2025',

Amount: 500,

Currency: 'Yen',

CVV:123

}

Response:

{

    "TransactionID": "2324fa68-975c-4124-9c32-21c2e12ff24c",

    "Status": "Unsuccessfull",

    "TransactionDate": "10/02/2020 12:00:00"

}

<http://localhost:64388/api/Request/RetrievePayment>

payload:

{

"MerchantID" : 5,

"TransactionID": "2324fa68-975c-4124-9c32-21c2e12ff24c"

}

Response:

{

    "CardNumber": "\*\*\*\*\*\*\*\*\*\*\*\*2222",

    "ExpiryDate": "11/12/2025",

    "Amount": 500,

    "Currency": "Yen",

    "TransactionStatus": "Unsuccessfull",

    "TransactionDate": "2020-02-10T00:00:00"

}

Using wrong merchantID

Payload:

{

"MerchantID" : 4,

"TransactionID": "2324fa68-975c-4124-9c32-21c2e12ff24c"

}

Response:

"No Payments found"

If merchant does not exist:

Payload:

{

MerchantID : 2,

CardNumber: 5555444433332222,

ExpiryDate: '12/11/2025',

Amount: 500,

Currency: 'Yen',

CVV:123

}

Response:

"No Mechant found"