* Project PaymentGateway:
  + Description:
    - Implementation of payment gateway using .NET core and couchbase as db (docker pull csestudent/payment-gateway-challenge)
  + Webservices:
    - Process Transaction (process a transaction and stores transaction info in db)
    - Get Transaction (retrieves a transaction based on transaction id)
    - Get Transactions (retrieves all transactions of a merchant)
* Project Bank Simulator

Project created to simulate bank part of the flow.

* + Webservices

1. Process Transaction (simulates transaction processing, returns transaction id and Boolean success)

* Assumptions:
  + This documentation serves as purpose only to give a brief description and not a real tech approach/brief with documentation of data flows, …
  + Payment will be done using cards only and not any type of medium such as PayPal.
  + Webservice to process transaction also returns info about the processed transaction not only status.
  + Production configuration has not been populated as prod endpoints has not been set up and I assume that it will be running only on a dev environment. (The configuration will be similar to that of the dev one and to change the bank endpoint you just have to change the ApiUrl value in the configuration.)
  + Card number will be submitted with numbers only
  + Retrieving payment not only retrieves card info but also details about payment (amount, currency)
  + The bank endpoint requires the following params:
    - * accountNumber
      * cardNumber
      * cvv
      * amount
      * expiryDate
      * currency
* Improvements:
  + Data should have been encrypted before being stored in database
  + Parameters should be validated to prevent injections
  + More unit tests (missing tests plan)
* Setup:

Pull from: <https://github.com/cse-student/.NET-Challenge>

Pull docker for db from: <https://hub.docker.com/r/csestudent/payment-gateway-challenge>

Both solutions need to be running at the same time as the gateway will require the simulator to process/simulate the transactions.