

Backend Assignment v2.0

Payment Gateway

Objective: Implement API for a payment gateway in a language/framework of your choice.

Functional Requirements:

- The following payment type should be supported:
 1. Credit Card
 2. Debit Card

The following will be the request payload

```
{
  "amount": "100",
  "currency": "USD",
  "type": "creditcard"
  "card": {
    "number": "4111111111111111",
    "expirationMonth": "2",
    "expirationYear": "2020",
    "cvv": "111"
  }
}
```

- The API should provide valid error and success messages

The following will be the response payload

```
{
  "amount": "100",
  "currency": "USD",
  "type": "creditcard"
  "card": {
    "number": "4111111111111111"
  }
  "status": "success",
  "authorization_code": "SDSD23232333"
  "time": "2020-05-16 07:00:00"
}
```

- All order data and response with status should be logged in an SQL database.
- Relevant Unit Tests need to be written and should pass.

Non Functional Requirements

1. Include a Readme page with instructions on how to run the code.
2. Any additional assumptions made should be mentioned on the readme page.

Evaluation

The following will be parameters for evaluation

1. Good Code Quality
2. Good Code Structure
3. Usage of Unit Test Cases
4. Standard Naming Conventions
5. Logic Used

Happy Coding!