

Question 1

Not yet answered

Marked out of 10.00

Dear Students,

Congratulations on completing all the lecture topics and the guided project of the course. Here you have an interesting activity based on a use case as an assessment.

Use case

A retail shop needs to maintain a product stock and purchase orders through a web application. The customers can submit their orders via the web application. As a backend developer, you need to develop an API to register a customer in the system.

Below, please find a sample request and response JSON data for registering a customer.

Sample Request JSON for registering a customer

```
{
  "name": "A.D.Lakith Dharmasiri",
  "address": "No 324/A Ra De Mel Road, Colombo",
  "email": "lakith@gmail.com",
  "dateOfBirth": "1991.02.25",
  "gender": "female",
  "age": "28",
  "cardHolderName": "A.D.L.Dharmasiri",
  "cardNumber": "102445217895",
  "expirytDate": "12/2022",
  "cvv": "246",
  "timeStamp": "2022-12-31 23:59:59"
}
```

Sample Response JSON for a successful registration

```
{
  "message": " customer A.D. Lakith Dharmasiri has registered",
  "customerId": "2"
}
```

customerId: This should be the generated id from the database

1. Update the database.js file with the required data definition (CREATE TABLE statement) to create the data table to store the data of customers

Table name: customer

2. Implement a new API in the server.js file to register a customer and add the data record to the table.

The method of the API should be POST

Include the proper error handling

HTTP error codes

Success: 201 Created

An Error: 400 Bad Request

Reference for HTTP error codes - [Link](#)

3. Implement validation to validate POST data to the same API as below

Email address validation

Credit card number validation (12 digits)

Resources:

To test the expected outcome, you can pull the codebase from the below repository and edit the relevant files(database.js and server.js)

.

Git repository: <https://github.com/opencourse5tutor/products-api>

Answer Submission Instructions

Students should submit the following files.

- 1. A screenshot of a successful customer registration using the Postman tool.
- 2. database.js file
- 3. server.js file

The customer name should be assigned with the student's name in the customer information. (*Note: Please DO NOT put other personal information such as your email, date of birth, and credit card information as customer data.)


(*Note: If you encounter any issues in Installing or Updating the Postman tool, please refer to the pinned post "Guidelines for Installing and Updating Postman", in the course 5 student forum)


↓


A ▾


B


I









































Files

Maximum file size: 500KB, maximum number of files: 3

Accepted file types

All file types

Question **2**

Not yet answered

Marked out of 10.00

YOU WILL NOT RECEIVE CREDIT IF YOU DO NOT INCLUDE THE BELOW PLEDGE.

Please make sure that you have given a valid answer to the first question. Otherwise, you will not get a pass mark.

- ☐ I pledge that the work submitted is my own and that I have not looked at any resources.
- ☐ The submitted work is my Postman tool output for assessment 1.

◀ **Guided Project**

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