Microservices Assignment

Implementation includes

1. API Gateway – OCELOT
2. Consul – Service Discovery and Centralized Configuration

Run consul – cmd to directory and run command “consul agent -dev -node=localhost”

1. Authentication on API gateway for delete API’s - User "admin", "aDm1n" has access to delete account or customer
2. Validation from centralized key value saved for emails to allow them to be the part of the system

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1. Exception handling – through middleware and customdelegatehandler middleware in api gateway

**OCELOT API’s Urls:**

**Auth API**

<https://localhost:7097/login>

**Customer API --** [**http://localhost:5102**](http://localhost:5102) **for http endpoint**

[https://localhost:7097/customers](https://localhost:7097/savecustomer)

[https://localhost:7097/customerbyemail](https://localhost:7097/savecustomer)

<https://localhost:7097/savecustomer>

<https://localhost:7097/updatecustomer>

<https://localhost:7097/deletecustomer>

**Account API**

<https://localhost:7097/accounts>

<https://localhost:7097/accountdetail>

<https://localhost:7097/savemoney>

<https://localhost:7097/withdrawmoney>

Tested all with Postman

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**Customer API’s**

1. **Save Customer:**

[https://localhost:44369/api/Customers/Post](https://localhost:44369/api/Customers/PostCustomer%20)

**Request parameter object:**

|  |
| --- |
| **{**  **"name": "string",**  **"address": "string",**  **"city": "string",**  **"email": "string",**  **"phone": "string"**  **}** |

1. **Get all customers:**

[https://localhost:44369/api/Customers/Get](https://localhost:44369/api/Customers/GetAllCustomer)

1. **Get customer by email**

<https://localhost:44369/api/Customers/GetCustomerByEmail>

Request Parameter – string email

1. **Update Customer**

<https://localhost:44369/api/Customers/Put>

Request parameters:

String email, Object customer

1. **Delete Customer**

<https://localhost:44369/api/Customers/Delete>

Request Parameter

String email address

**Account API’s**

1. **Get all accounts**

<https://localhost:44378/api/accounts/get>

1. **Get account by email**

<https://localhost:44378/api/accounts/getaccountbyemail>

Request Parameter : email string

1. **AddMoney in account**

<https://localhost:44378/api/accounts/AddMoney>

Request parameter:

**{**

**"customerEmail": "string",**

**"amount": 0**

**}**

1. Withdraw money from account

<https://localhost:44378/api/accounts/withdrawmoney>

Request parameter:

**{**

**"customerEmail": "string",**

**"amount": 0**

**}**

1. Delete account

<https://localhost:44378//api/accounts/delete>

Request parameter: email string

Auth API’s

1. <https://localhost:7173/api/auth/login>

Request Object:

{

"username": "string",

"password": "string"

}

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A screenshot of a computer

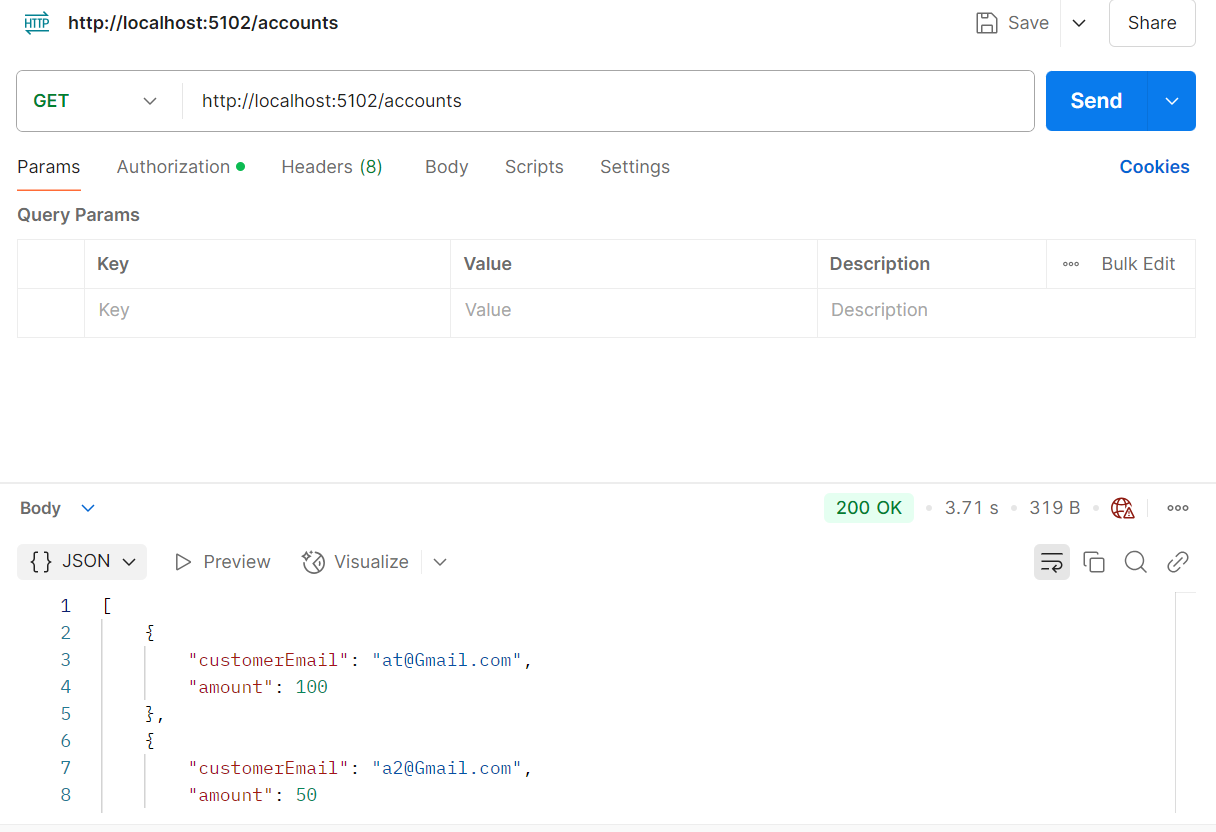
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A screenshot of a social media account

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PostMan – calls each service

**Using http service endpoint**

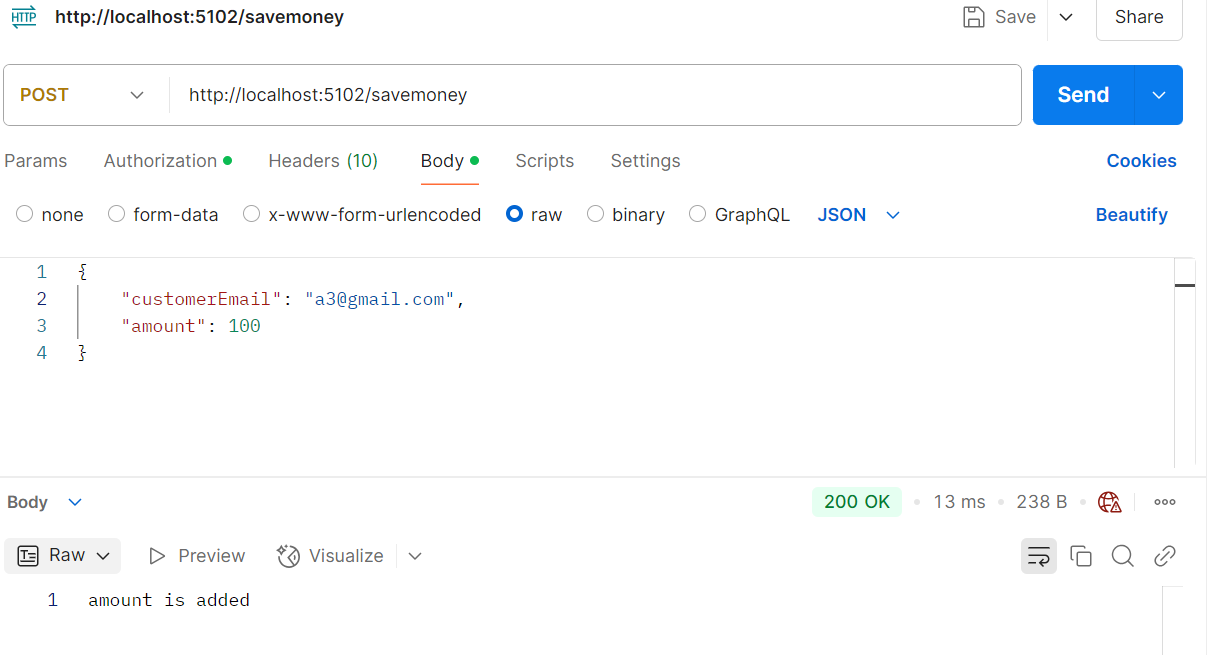


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**Using https service endpoint**

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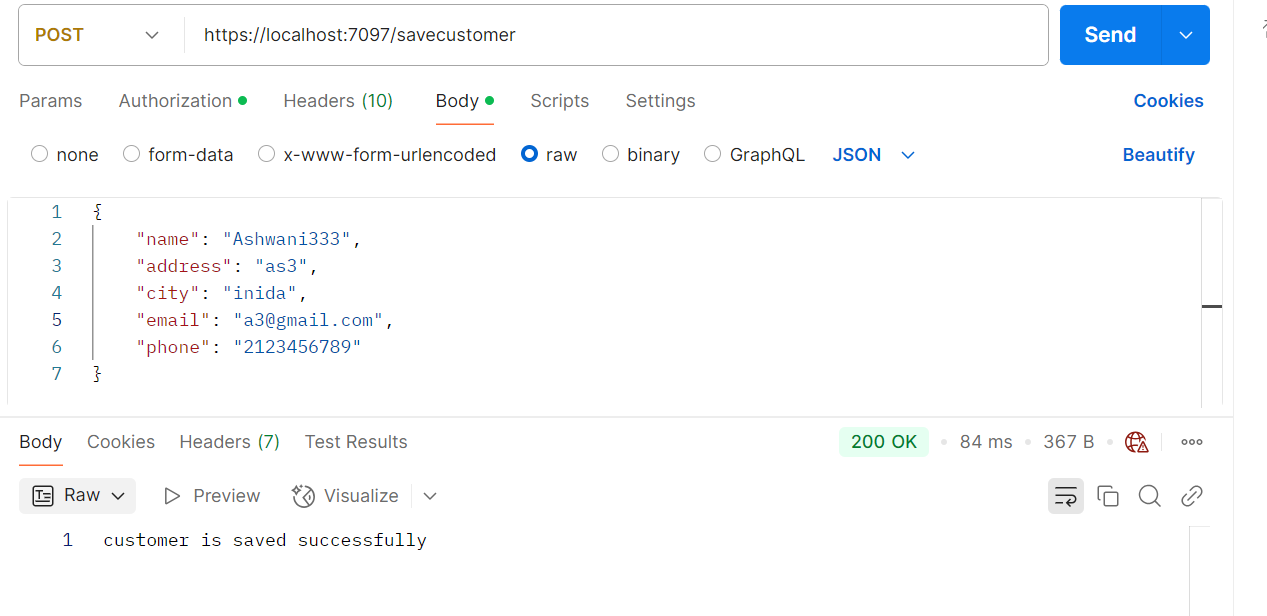
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