Welcome to your first group project, you will be broken up into groups of either 5 or 6 people. Together over the next few days you will build a RESTful service for a banking application.

Task 1: Create the restful endpoint for an account object.

Account

id: Long
type: Enum
nickname:String
rewards: Integer
balance:Double
customer:Customer

- id is an auto generated value which should be assigned by the database
- type is an enumerated value which when serialized should print out as a string
 - Savings
 - Checking
 - Credit
- **nickname** is a string value assigned at creation to describe the account i.e "Leon's savings account"
- **rewards** is a integer value which represents the reward points assigned to an account
- **balance** is the amount of money available in the account which can be applied to purchases.
- **customer-** customer object associated with account

Method: GET	URI: /accounts	Action: Get all accounts
Method: GET	URI: /accounts/{customerId}	Action: Get account by id
Method: GET	URI: /customers/{customerId}/accounts	Action: Get account by id
Method: POST	/customers/{customerId}/accounts	Create an account
Method: PUT	/accounts/{accountId}	Update a specific existing account
Method:DELETE	/accounts/{accountId}	Update a specific existing account

```
Account: List all of the accounts available
Method: GET
                 URI: /accounts
                                                      Action: Get all accounts
Example Failed Response: Status (404)
  "code": 404,
  "message": "error fetching accounts"
Example Successful Response: Status (200)
  "code": 200,
   "message": "Success",
  "data":
       [
            "id": 1,
            "type": "Savings",
            "nickname": "Leon's Account",
            "rewards": 37605,
            "balance": 19351,
            "customer_id": 10
         },
            "id": 2,
            "type": "Savings",
            "nickname": "Zach Account",
            "rewards": 37605,
            "balance": 19351,
            "customer_id": 11
```

]

```
Account: Get one account by customer id
Method: GET
                URI: /accounts/{customerId}
                                                   Action: Get account by id
Example Failed Response: Status (404)
  "code": 404,
  "message": "error fetching account"
Example Successful Response: Status (200)
  "code": 200,
   "message": "error fetching account",
   "data":
     "id": 1,
     "type": "Savings",
     "nickname": "Leon's Account",
     "rewards": 37605,
     "balance": 19351,
     "customer_id": 10
  }
}
```

```
PUT /accounts/{accountId} Update a specific existing account

Example Failed Response: Status (404)
{
    "code": 404,
    "message": "Error",
}

Example Successful Response: Status (200)

{
    "code": 200,
    "message": "Customer account updated"
}
```

Account: Get all accounts belonging to one customer by customer ID

Method: GET URI: /customers/{customerId}/accounts

Action: Get account by id

```
Example Failed Response: Status (404)

{
    "code": 404,
    "message": "Error fetching customers accounts"
}

Example Successful Response: Status (200)
```

```
"code": 200,
   "message": "Error fetching customers accounts",
  "Data":
        [
          "id": 1,
          "type": "Savings",
          "nickname": "Leon's Saving Account",
          "rewards": 37605,
          "balance": 19351,
          "customer_id": 10
          "id": 32,
          "type": "Checking",
          "nickname": "Leon's Checking Account",
          "rewards": 37605,
          "balance": 22,
          "customer_id": 10
}
```

Account: Create a new account and assign it to a customer by the customer id POST /customers/{customerId}/accounts Create an account Example Failed Response: Status (404) { "code": 404, "message": "error fetching creating customers account"

```
Example Successful Response: Status (201)

{
    "code": 201,
    "message": "Account created",
    "data": {
        "type": "Credit Card",
        "nickname": "string",
        "rewards": 0,
        "balance": 0,
        "customer_id": 10,
        "_id": 42
    }
}
```

Account: Delete a account by account id

```
DELETE /accounts/{accountId}

Example Failed Response: Status (404)
{
    "code": 404,
    "message": "Account does not exist"
}

Example Successful Response: Status (201)
{
    "code": 202,
    "message": "Account successfully deleted"
}
```

Task 2: Create the restful endpoint for a Customer object.

Customer

- + id:Long
- + first_name:String + last_name:String
- + address: Set<Address>
 - id is an auto generated value which should be assigned by the database
 - **first_name** first name of customer
 - last name last name of customer
 - address A set of addresses associated with customer

Address

- + id:Long
- + street_number:String
- + street_name:String
- + city:String
- + state:String
- + zip: String
 - id is an auto generated value which should be assigned by the database
 - **street_name -** name of street
 - **street_number -** street number
 - city city of customer
 - **state** state customer lives in
 - **zip** zip code of customer

Method: GET	/accounts/{customerId}/customer	Get customer that owns the specified account
Method: GET	/customers	Get all customers
Method: GET	/customers/{id}	Get customer id
Method: POST	/customers	Create a customer
Method: PUT	/customers/{id}	Update a specific existing bill

Customer: List all of the accounts for a specified customer

Method: GET

/accounts/{customerId}/customer

Get customer that owns the specified account

```
Example Failed Response: Status (404)
{
    "code": 0,
    "message": "error fetching customers accounts"
}
```

```
Example Successful Response: Status (200)
       "code": 200,
       "message": "Success",
       "Data":[
            "id": 1,
            "type": "Savings",
            "nickname": "Leon's Savings Account",
            "rewards": 37605,
            "balance": 19351,
            "customer_id": 10
            "id": 2,
            "type": "Checking",
            "nickname": "Leon's Checking Account",
            "rewards": 37605,
            "balance": 19351,
            "customer_id": 10
          }
}
```

```
Customer: List all customers
```

Method: GET

/customers

Get all customers

```
Example Failed Response: Status (404)
  "code": 404,
   "message": "error fetching accounts"
{
        "code": 200,
        "message": "Success",
        "Data":
           "id": 1,
          "first_name": "Leon",
          "last_name": "Hunter",
           "address": {
            "street_number": "902",
            "street_name": "Walker Road",
            "city": "Clearfield",
            "state": "Pennsylvania",
            "zip": "16830"
          }
         },
           "id": 2,
           "first_name": "David",
          "last_name": "Ginzburgh",
           "address": {
            "street_number": "40",
            "street_name": "Pitt Bridge",
            "city": "Branchland",
            "state": "West Virginia",
            "zip": "25506"
         }
}
```

```
Customer: List all customers

Method: GET /customers/{id}
```

```
Example Failed Response: Status (404)
  "code": 404,
   "message": "error fetching account"
{
        "code": 200,
        "message": "Success",
        "data":
          "id": 1,
          "first_name": "Leon",
          "last_name": "Hunter",
          "address": {
           "street_number": "902",
           "street_name": "Walker Road",
           "city": "Clearfield",
           "state": "Pennsylvania",
           "zip": "16830"
          }
         }
}
```

Get customer id

```
Customer: Create a new customer account
```

}

```
Method: POST
Example Failed Response: Status (404)
  "code": 404,
   "message": "Error"
Example Successful Response: Status (200)
       "code": 200,
       "message": "Customer account updated",
       "Data":
               "id": 3,
               "firstName": "Tariq",
               "lastName": "Hook",
               "address":
               [
               {
                              "id": 5,
                              "streetNumber": "123",
                              "streetName": "Sesame Street",
                              "city": "Wilmington",
                              "state": "DE",
                              "zipcode": "19801"
               }
       }
```

```
Customer: Get all accounts belonging to one customer by customer ID
```

```
Method: GET
                URI: /customers/{customerId}/accounts
                                                           Action: Get account by id
Example Failed Response: Status (404)
  "code": 404,
   "message": "Error fetching customers accounts"
Example Successful Response: Status (200)
       "code": 200,
       "message": "Customer account updated",
       "Data":
                 "id": 1,
                 "type": "Savings",
                 "nickname": "Leon's Saving Account",
                 "rewards": 37605,
                 "balance": 19351,
                 "customer_id": 10
               },
                 "id": 32.
                 "type": "Checking",
                 "nickname": "Leon's Checking Account",
                 "rewards": 37605,
                 "balance": 22,
                 "customer_id": 10
}
```

Customer: Create a new account and assign it to a customer by the customer id

```
POST
               /customers/{customerId}/accounts
                                                     Create an account
Example Failed Response: Status (404)
  "code": 404,
  "message": "error fetching creating customers account"
Example Successful Response: Status (201)
 "code": 201,
 "message": "Account created",
 "data": {
  "type": "Credit Card",
  "nickname": "string",
  "rewards": 0,
  "balance": 0,
  "customer_id": 10,
  "_id": 42
```

}