

BY
OLIVIA WILSON

Project JEE/Reactjs /MySQL

SUJET:
GESTION DE FACTURES

Une application basée sur une architecture micro-service qui permet de gérer les factures contenant des produits et appartenant à un client.

BACKEND

I) LES MICRO-SERVICES

1) CUSTOMER-SERVICE

```
localhost:8888/CUSTOMER-SERVICE/customers

{
  "_embedded" : {
    "customers" : [ {
      "id" : 1,
      "name" : "Enset",
      "email" : "contact@enset-media.ma",
      "_links" : {
        "self" : {
          "href" : "http://DESKTOP-NQDDFOE:8081/customers/1"
        },
        "customer" : {
          "href" : "http://DESKTOP-NQDDFOE:8081/customers/1"
        }
      }
    }, {
      "id" : 2,
      "name" : "FSTM",
      "email" : "contact@fstm.ma",
      "_links" : {
        "self" : {
          "href" : "http://DESKTOP-NQDDFOE:8081/customers/2"
        },
        "customer" : {
          "href" : "http://DESKTOP-NQDDFOE:8081/customers/2"
        }
      }
    }, {
      "id" : 3,
      "name" : "ENSAM",
      "email" : "contact@ESAM.ma",
      "_links" : {
        "self" : {
          "href" : "http://DESKTOP-NQDDFOE:8081/customers/3"
        },
        "customer" : {
          "href" : "http://DESKTOP-NQDDFOE:8081/customers/3"
        }
      }
    }, {
      "id" : 4,
      "name" : "Emsi",
      "email" : "contact@emsi.ma",
      "_links" : {
        "self" : {
          "href" : "http://DESKTOP-NQDDFOE:8081/customers/4"
        },
        "customer" : {
          "href" : "http://DESKTOP-NQDDFOE:8081/customers/4"
        }
      }
    }
  ]
}
```

2) INVENTORY-SERVICE

```
localhost:8888/INVENTORY-SERVICE/products

{
  "_embedded" : {
    "products" : [ {
      "id" : 1,
      "name" : "Computer desk top hp",
      "price" : 900.0,
      "_links" : {
        "self" : {
          "href" : "http://DESKTOP-NQDDFOE:8082/products/1"
        },
        "product" : {
          "href" : "http://DESKTOP-NQDDFOE:8082/products/1"
        }
      }
    }, {
      "id" : 2,
      "name" : "printer Epson",
      "price" : 80.0,
      "_links" : {
        "self" : {
          "href" : "http://DESKTOP-NQDDFOE:8082/products/2"
        },
        "product" : {
          "href" : "http://DESKTOP-NQDDFOE:8082/products/2"
        }
      }
    }, {
      "id" : 3,
      "name" : "MacBook pro lab top",
      "price" : 1800.0,
      "_links" : {
        "self" : {
          "href" : "http://DESKTOP-NQDDFOE:8082/products/3"
        },
        "product" : {
          "href" : "http://DESKTOP-NQDDFOE:8082/products/3"
        }
      }
    } ]
  },
  "_links" : {
    "self" : {
      "href" : "http://DESKTOP-NQDDFOE:8082/products"
    },
    "profile" : {
      "href" : "http://DESKTOP-NQDDFOE:8082/profile/products"
    }
  }
}
```

3) BILLING-SERVICE

BILLS:

```
localhost:8888/BILLING-SERVICE/bills

{
  "_embedded" : {
    "bills" : [ {
      "billingDate" : "2022-12-21T16:45:37.000+00:00",
      "customerID" : 1,
      "customer" : null,
      "_links" : {
        "self" : {
          "href" : "http://DESKTOP-NQDDFOE:8083/bills/1"
        },
        "bill" : {
          "href" : "http://DESKTOP-NQDDFOE:8083/bills/1"
        },
        "productItems" : {
          "href" : "http://DESKTOP-NQDDFOE:8083/bills/1/productItems"
        }
      }
    } ]
  },
  "_links" : {
    "self" : {
      "href" : "http://DESKTOP-NQDDFOE:8083/bills"
    },
    "profile" : {
      "href" : "http://DESKTOP-NQDDFOE:8083/profile/bills"
    }
  },
  "page" : {
    "size" : 20,
    "totalElements" : 1,
    "totalPages" : 1,
    "number" : 0
  }
}
```

PRODUCT ITEMS:

```
{
  "_embedded" : {
    "productItems" : [ {
      "quantity" : 25,
      "price" : 900.0,
      "productID" : 1,
      "product" : null,
      "productName" : null,
      "_links" : {
        "self" : {
          "href" : "http://DESKTOP-NQDDFOE:8083/productItems/1"
        },
        "productItem" : {
          "href" : "http://DESKTOP-NQDDFOE:8083/productItems/1"
        },
        "bill" : {
          "href" : "http://DESKTOP-NQDDFOE:8083/productItems/1/bill"
        }
      }
    }, {
      "quantity" : 76,
      "price" : 80.0,
      "productID" : 2,
      "product" : null,
      "productName" : null,
      "_links" : {
        "self" : {
          "href" : "http://DESKTOP-NQDDFOE:8083/productItems/2"
        },
        "productItem" : {
          "href" : "http://DESKTOP-NQDDFOE:8083/productItems/2"
        },
        "bill" : {
          "href" : "http://DESKTOP-NQDDFOE:8083/productItems/2/bill"
        }
      }
    }, {
      "quantity" : 44,
      "price" : 1800.0,
      "productID" : 3,
      "product" : null,
      "productName" : null,
      "_links" : {
        "self" : {
          "href" : "http://DESKTOP-NQDDFOE:8083/productItems/3"
        },
        "productItem" : {
          "href" : "http://DESKTOP-NQDDFOE:8083/productItems/3"
        }
      }
    }
  ]
}
```

4) EUREKA

← → ↻ localhost:8761

System Status

Environment	test	Current time	2022-12-22T11:45:45 +0100
Data center	default	Uptime	18:03
		Lease expiration enabled	true
		Renews threshold	8
		Renews (last min)	16

DS Replicas

localhost

Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
BILLING-SERVICE	n/a (1)	(1)	UP (1) - DESKTOP-NODDFOE:billing-service:8083
CUSTOMER-SERVICE	n/a (1)	(1)	UP (1) - DESKTOP-NODDFOE:customer-service:8081
GATEWAY-SERVICE	n/a (1)	(1)	UP (1) - DESKTOP-NODDFOE:gateway-service:8888
INVENTORY-SERVICE	n/a (1)	(1)	UP (1) - DESKTOP-NODDFOE:inventory-service:8082

General Info

Name	Value
------	-------

5) POSTMAN(KEYCLOAK TESTING)

POST http://localhost:8080/realms/Othman-Realm/protocol/openid-connect/token Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> username	mouhammed			
<input checked="" type="checkbox"/> password	1234			
<input checked="" type="checkbox"/> grant_type	password			
<input checked="" type="checkbox"/> client_id	wallet-client			

Body Cookies Headers (11) Test Results Status: 200 OK Time: 205 ms Size: 2.83 KB Save Response

Pretty Raw Preview Visualize JSON

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FRONT-END

1)AUTHENTICATION

Admin Login

Email

admin@example.com

Password

.....

Login

2)HOME PAGE (GESTION DE CLIENTS)

Customer Management

Add Customer

Logout

Customer Name

Customer Email

No.	Email	Id	Name	Actions		
1	contact@enset-media.ma	1	Enset	Edit	Delete	Show Bills
2	contact@fstm.ma	2	FSTM	Edit	Delete	Show Bills
3	contact@ESAM.ma	3	ENSAM	Edit	Delete	Show Bills
4	contact@emsi.ma	4	Emsi	Edit	Delete	Show Bills

3) BILLING SCREEN (GESTION DE FACTURES)

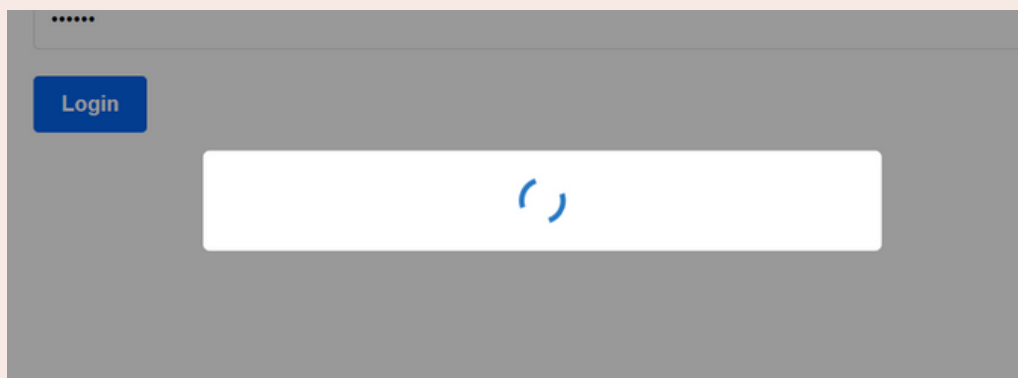
Customer Enset: Billing				
<button>Go Back</button>				
No.	Email	Name	Billing Date	Actions
1	contact@enset-media.ma	Enset	2022-12-21T16:45:37.000+00:00	<button>See Products</button>

4) PRODUCT ITEM SCREEN (GESTION DE PRODUITS)

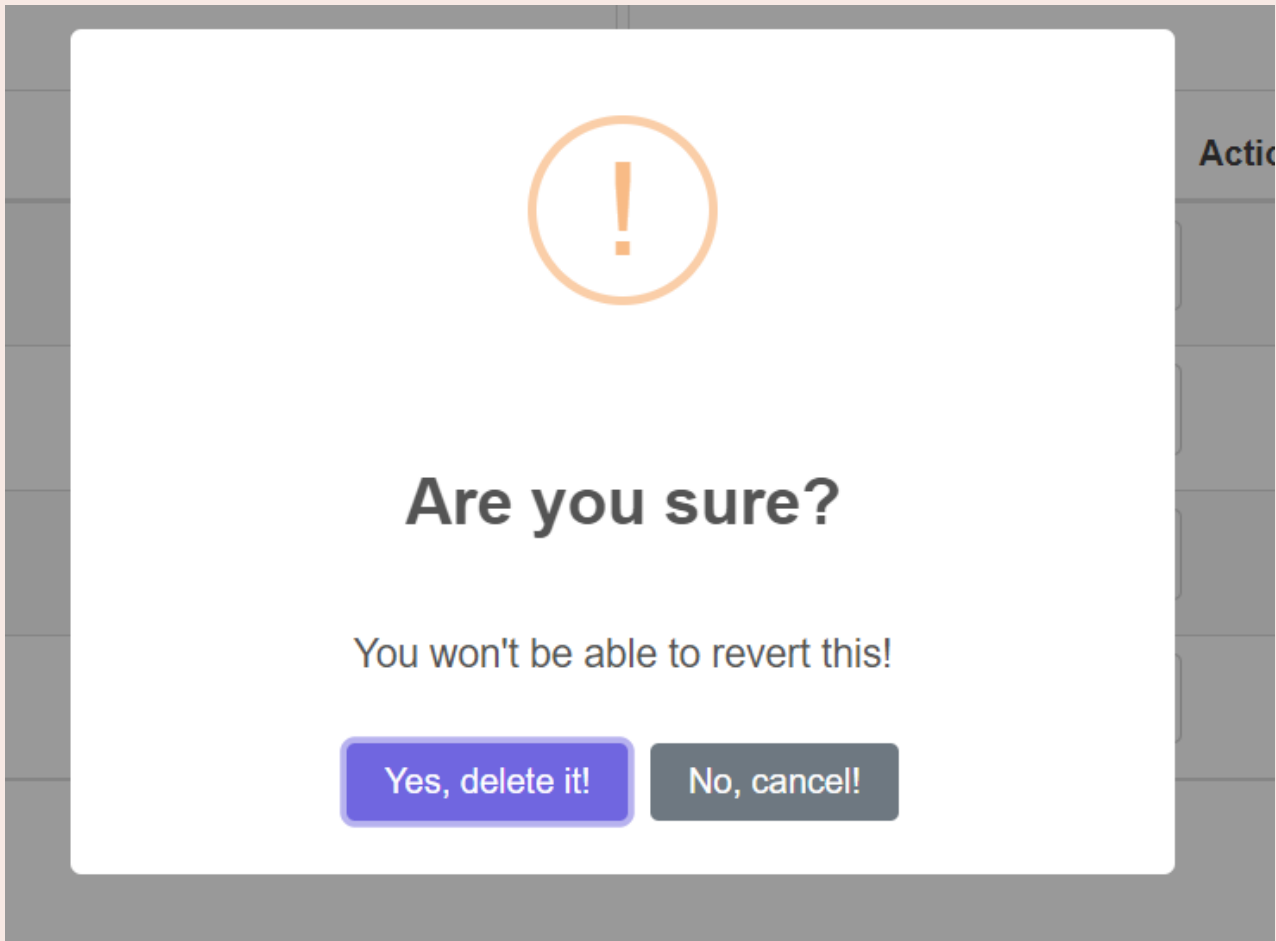
Customer Enset: Products Bought							
<button>Add ProductItem</button>							
<button>Go Back</button>							
No.	Name	Email	Price	Quantity	Total	Actions	
1	Enset	contact@enset-media.ma	900	25	22500	<button>Edit</button>	<button>Delete</button>
2	Enset	contact@enset-media.ma	80	76	6080	<button>Edit</button>	<button>Delete</button>
3	Enset	contact@enset-media.ma	1800	44	79200	<button>Edit</button>	<button>Delete</button>

5) LES ACCESSOIRES

LOADING ANIMATION:



CONFIRM OR CANCE POP-UP:



SINGLE PAGE ADD AND EDIT:

A screenshot of a web application running on localhost:3000/crud-app. The page is titled "Add Customer" in a bold, dark gray font. Below the title, there are three input fields: "Id" with the value "5", "Email", and "Name". At the bottom of the form, there are two buttons: a blue "Add" button and a light gray "Cancel" button.

LA SELECTION MULTICRITÈRE:

Customer Management

Add Customer

Logout

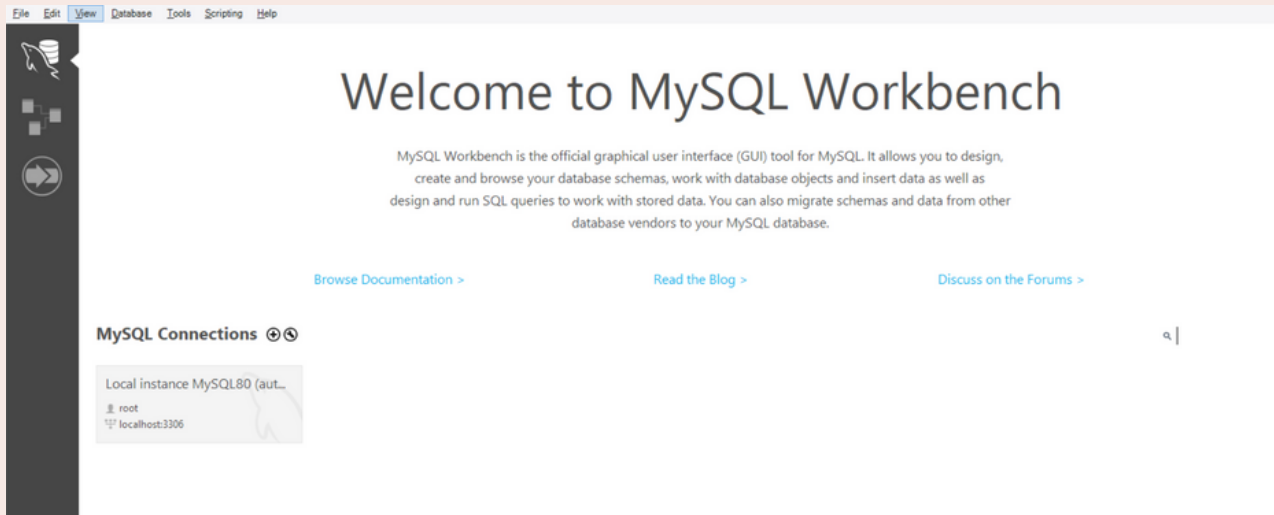
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contact@e

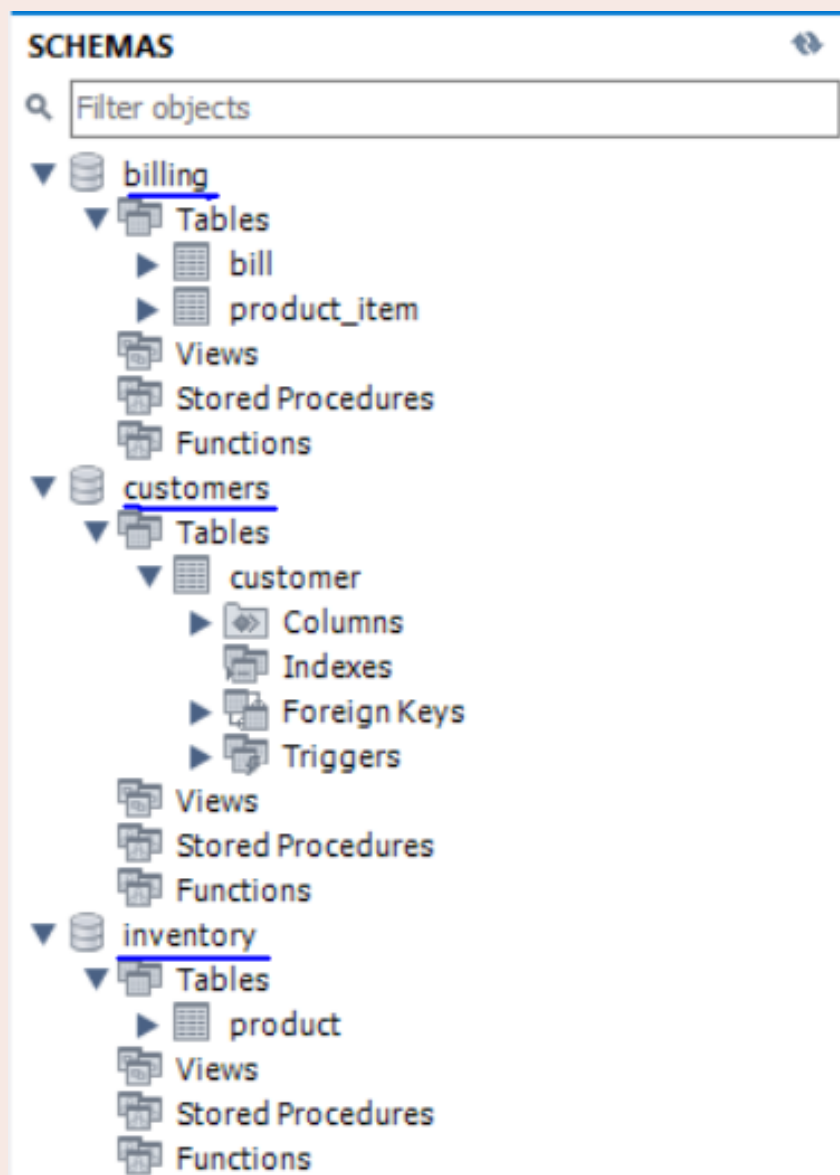
No.	Email	Id	Name	Actions		
1	contact@enset-media.ma	1	Enset	Edit	Delete	Show Bills
4	contact@emsi.ma	4	Emsi	Edit	Delete	Show Bills

DATABASE

1)MYSQL-WORKBENCH



2) LES BASE DE DONNÉES



2) BASE DE DONNÉE KEYCLOACK

