



BY  
OTHMAN MILAH

# 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:3761

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) - <a href="#">DESKTOP-NODDFQE:billing-service:8083</a>
CUSTOMER-SERVICE	n/a (1)	(1)	UP (1) - <a href="#">DESKTOP-NODDFQE:customer-service:8081</a>
GATEWAY-SERVICE	n/a (1)	(1)	UP (1) - <a href="#">DESKTOP-NODDFQE:gateway-service:8888</a>
INVENTORY-SERVICE	n/a (1)	(1)	UP (1) - <a href="#">DESKTOP-NODDFQE:inventory-service:8082</a>

General Info

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

## 5) POSTMAN(KEYCLOAK TESTING)

[illegible]



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)

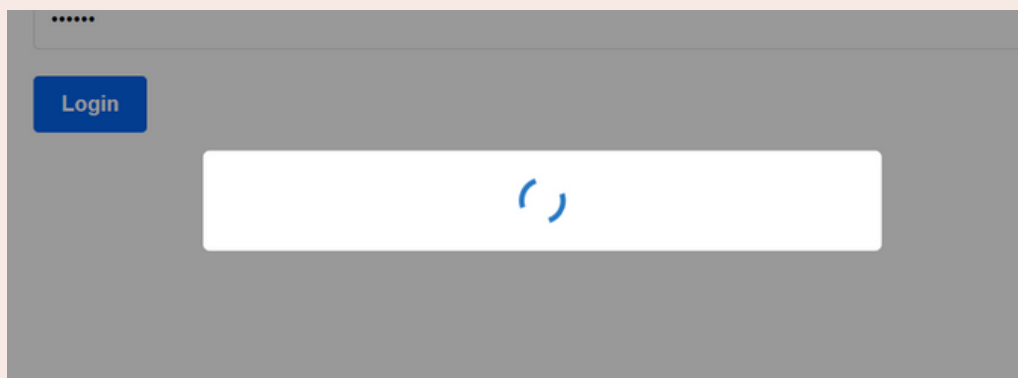
Customer Enset: Billing				
<button>Go Back</button>				
No.	Email	Name	Billing Date	Actions
1	contact@enset-media.ma	Enset	2022-12-21T16:45:37.000+00:00	<button>See Products</button>

### 4) PRODUCT ITEM SCREEN (GESTION DE PRODUITS)

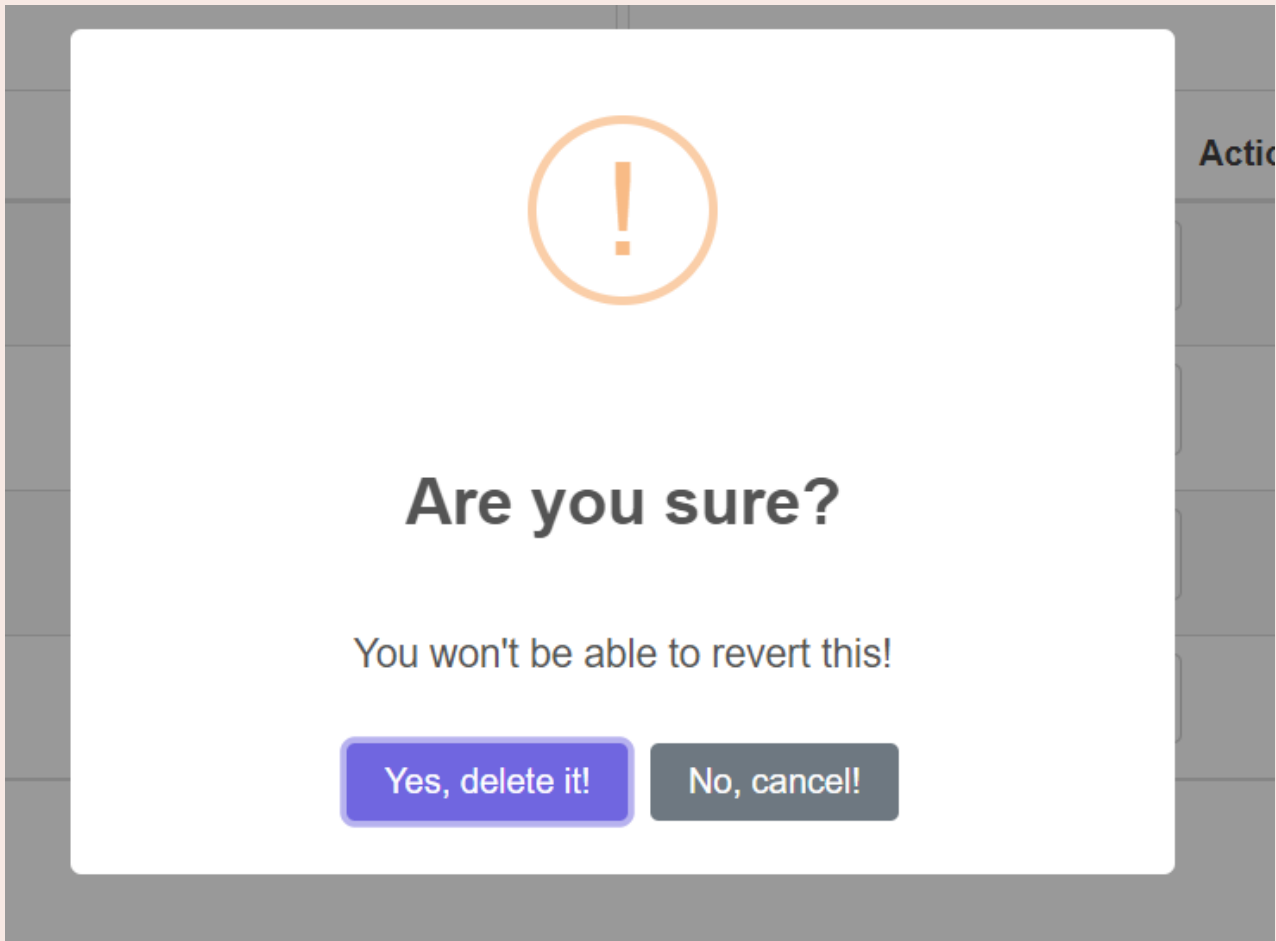
Customer Enset: Products Bought							
<button>Add ProductItem</button>							
<button>Go Back</button>							
No.	Name	Email	Price	Quantity	Total	Actions	
1	Enset	contact@enset-media.ma	900	25	22500	<button>Edit</button>	<button>Delete</button>
2	Enset	contact@enset-media.ma	80	76	6080	<button>Edit</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 white "Cancel" button with a gray border. The form is styled with a clean, modern look using a sans-serif font.

# LA SELECTION MULTICRITÈRE:

## Customer Management

Add Customer

Logout

E

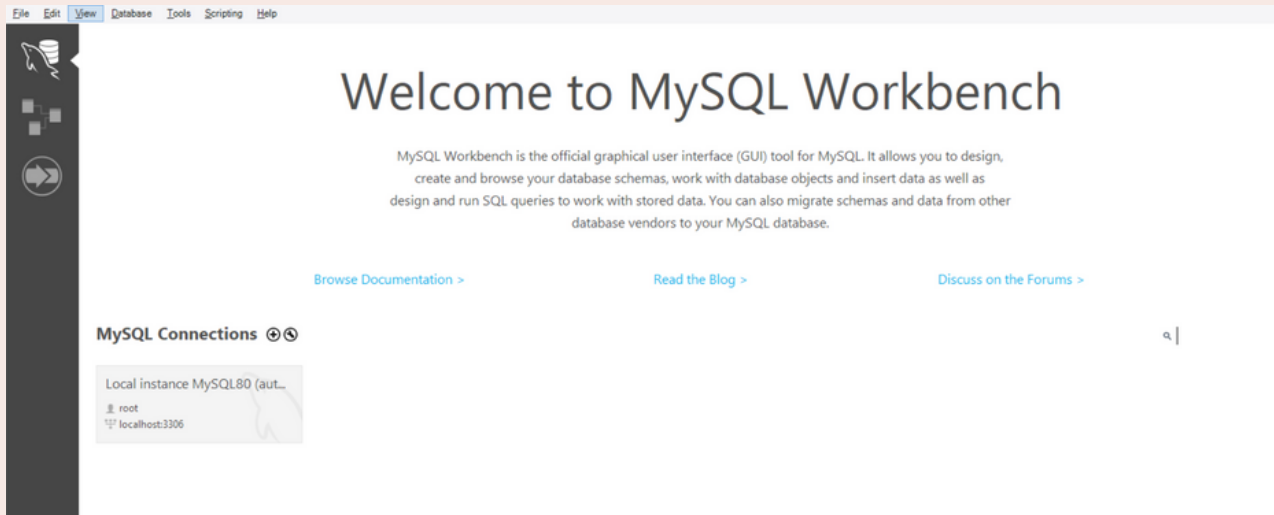
contact@e

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

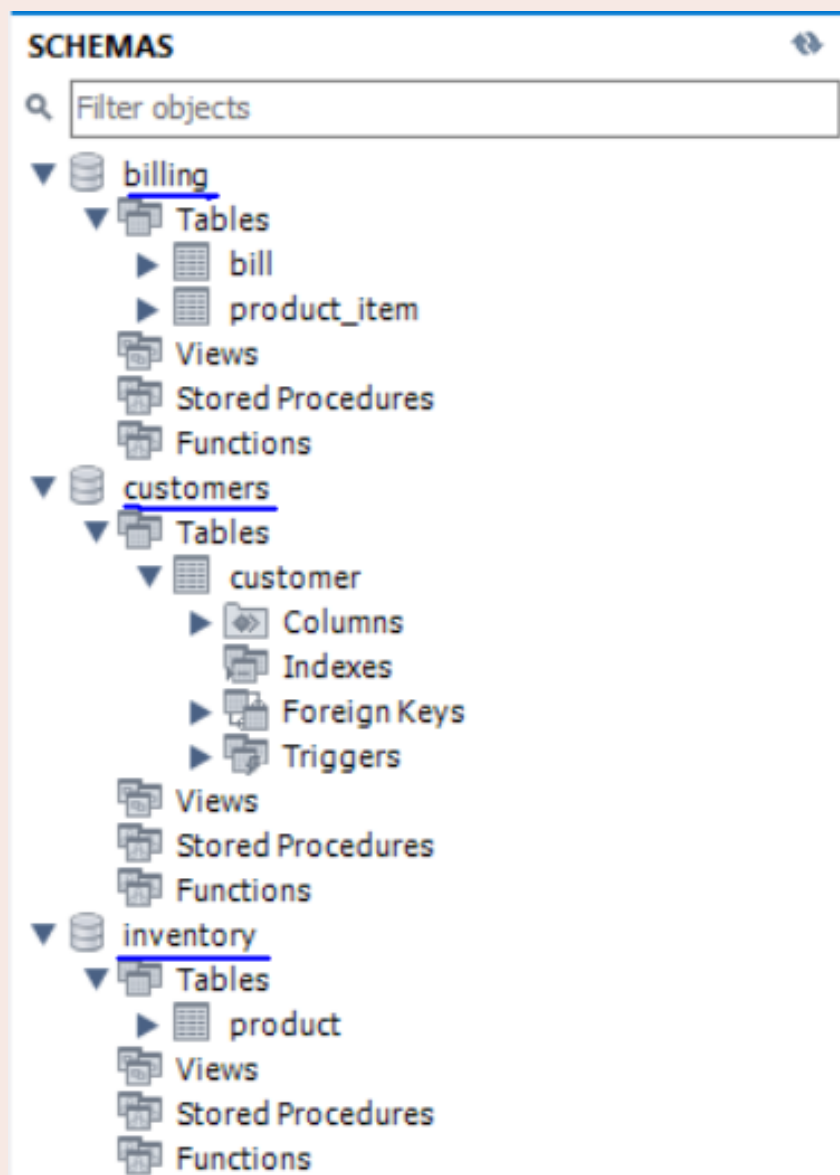


*DATABASE*

# 1)MYSQL-WORKBENCH



## 2) LES BASE DE DONNÉES



## 2) BASE DE DONNÉE KEYCLOACK

