



Sri Lanka Institute of Information Technology

Cellular Phone Shop Management System (OSGI FRAMEWORK)

Software Architecture (SE3030)

2022

CSSE_WE_12

Assignment 01

Submitted by:

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Introduction

This report provides an overview of the use of the OSGi framework for implementing a producer-consumer model, which involves the production and consumption of services. For this project, we have developed a producer-consumer model for the admin party of a Phone Shop Management System, which includes several sub-systems such as Billing Management, Stock Management, Admin Management, Employee Management and Supply Management. The producer-consumer model utilizes the OSGi framework, where the producer generates services, and the consumer subscribes to these generated services for its consumption.

Requirement of the Assignment

Implementing a plugin project for a producer-consumer scenario. The implementations should be capable of publishing services and consuming the services by implementing the inner logics of the scenario.

Scope of the Assignment

With the use of OSGi framework establishing communication between the producer and the consumer bundles in the “Cellular Store Management System”. Designing and implementing the producer bundles that publishes the services and a consumer bundle that subscribes and receive the services from the service producer bundles.

Goal of the Assignment

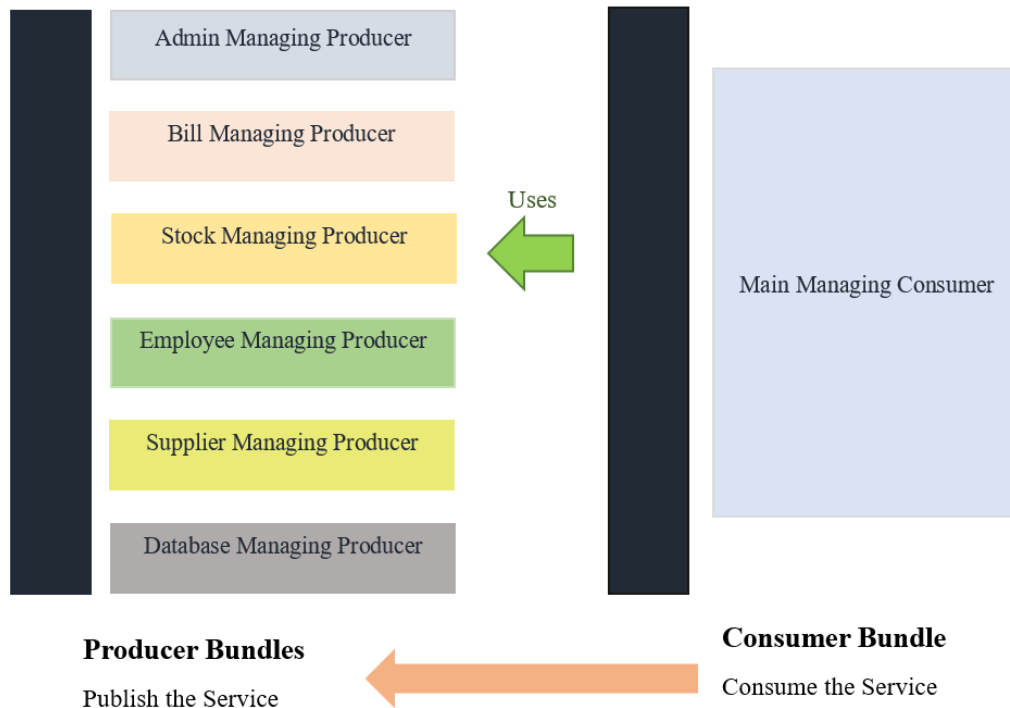
The goal of the assignment is to implement a producer-consumer scenario using OSGi framework, to demonstrate the use of OSGi services to establish communication between the producer and consumer bundles.

Moreover, gaining the practical experience in software architecture principles, ability to implement OSGi services by utilizing OSGi framework and to handle complex scenarios by applying critical thinking and problem-solving skills.

Tools and Technologies

- Eclipse Enterprise IDE for development.
- Java as the programming language.
- OSGi as the framework.
- Eclipse Equinox as the open-source implementation of OSGi framework
- Apache Felix Gogo shell is a shell console used for interacting with OSGi bundle and to install and run the producer and consumer bundles in the OSGi framework.

System Overview



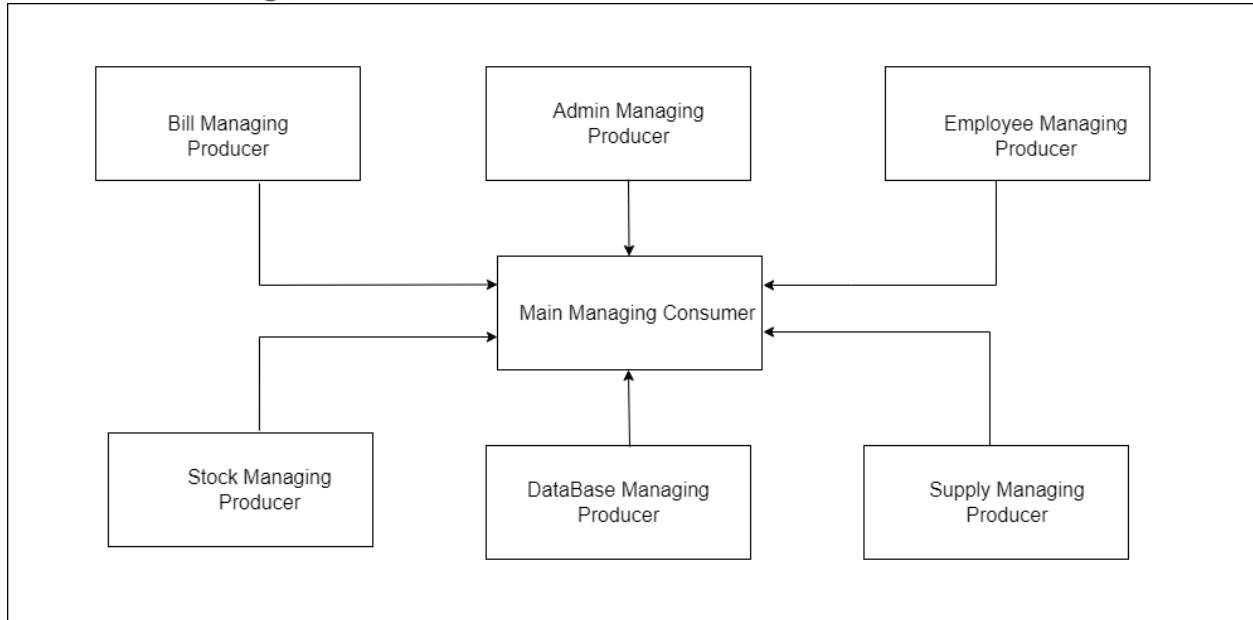
There are 5 Publisher components and 1 Consumer (Subscriber) component in this “Cellular Shop Management System”.

This scenario illustrates the admin side of a Cellular Shop Management System.

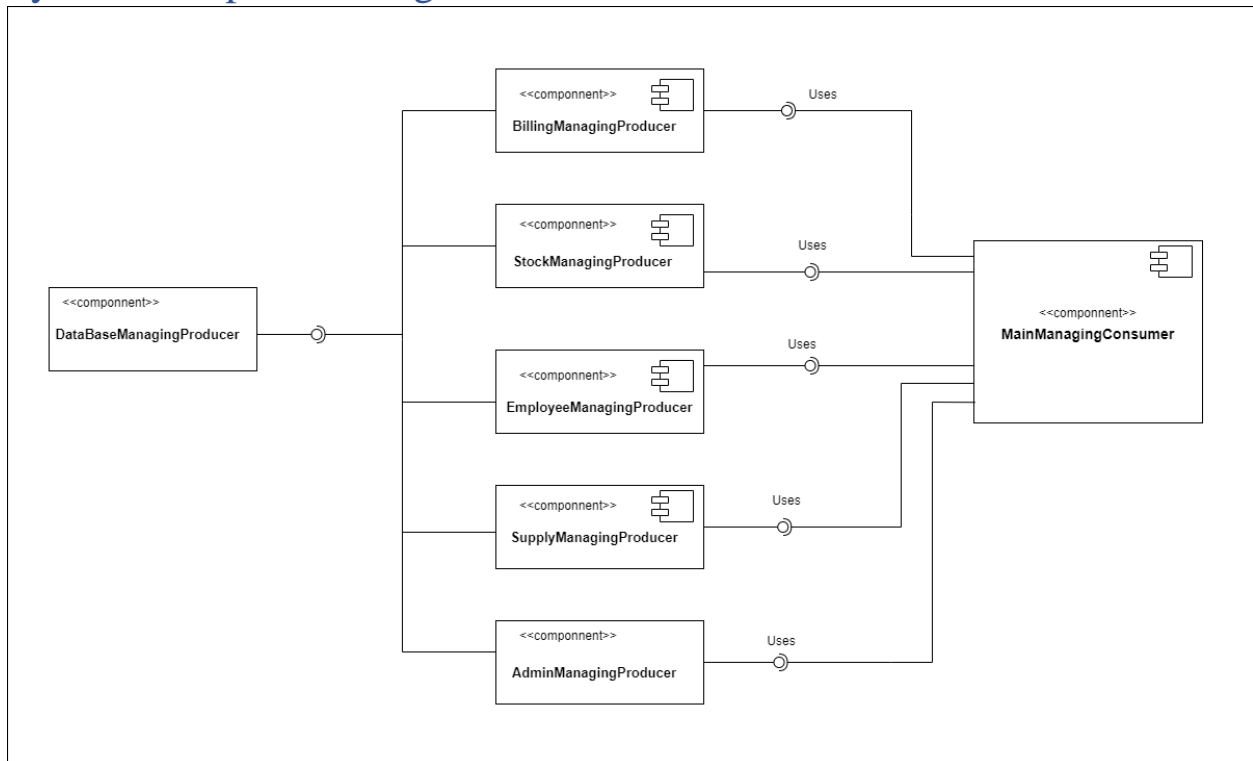
- Here the shop owner can assign admins to the shop, and he can add admins, update admin details, retrieve and search for admin details using the Admin Managing Producer bundle.
- Admins of this shop can perform main 4 functions as Bill Management, Stock Management, Employee Management and Supplier Management
- Bill management refers to the procedure where the admin can add bills, update bills, retrieve and search for bill details and delete bills.
- Stock management refers to the procedure where the admin can add stocks, update stocks, retrieve and search for stock details and delete stock details.
- Employee management refers to the procedure where the admin can add employees, update employees, retrieve and search for employee details and delete employees.
- Supplier management refers to the procedure where the admin can add suppliers, update supplier details, retrieve and search for supplier details and delete suppliers.

Scenario Explanation

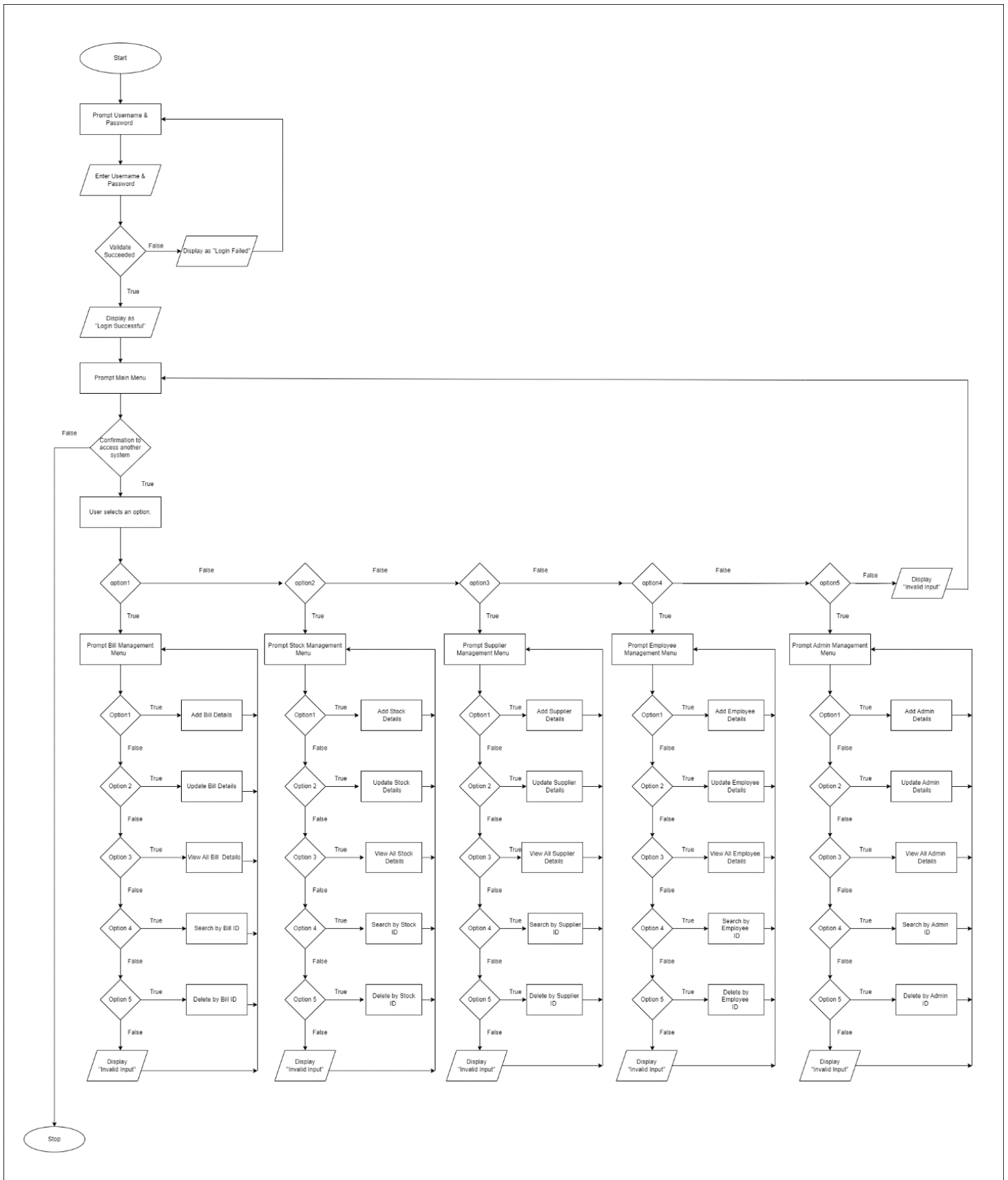
Functional Diagram



System Component Diagram

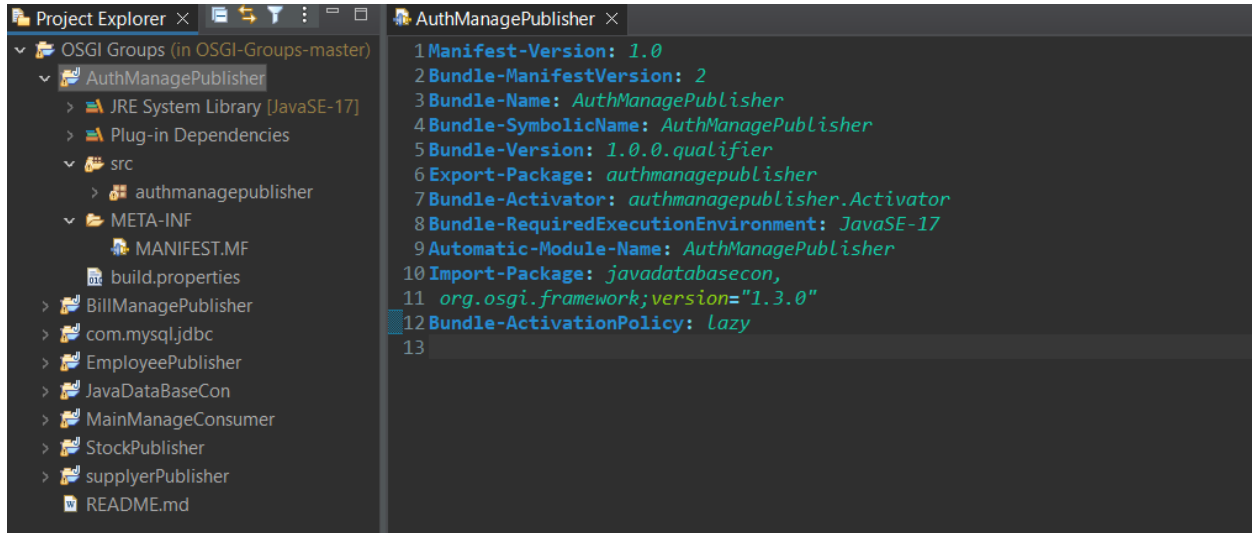


System Flow Chart

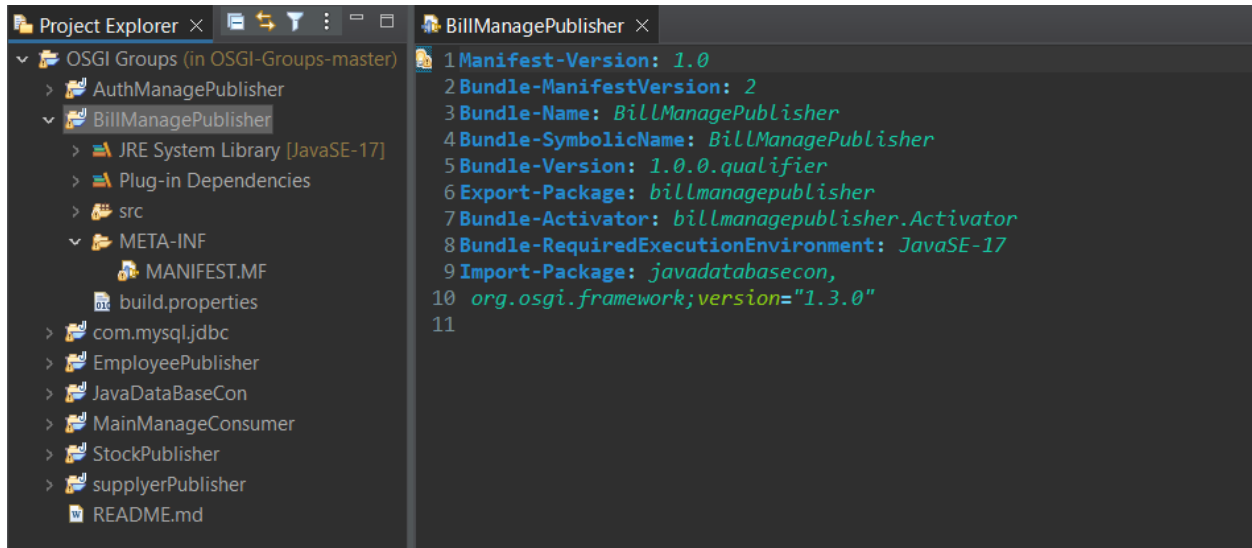


Bundle and Manifest Files

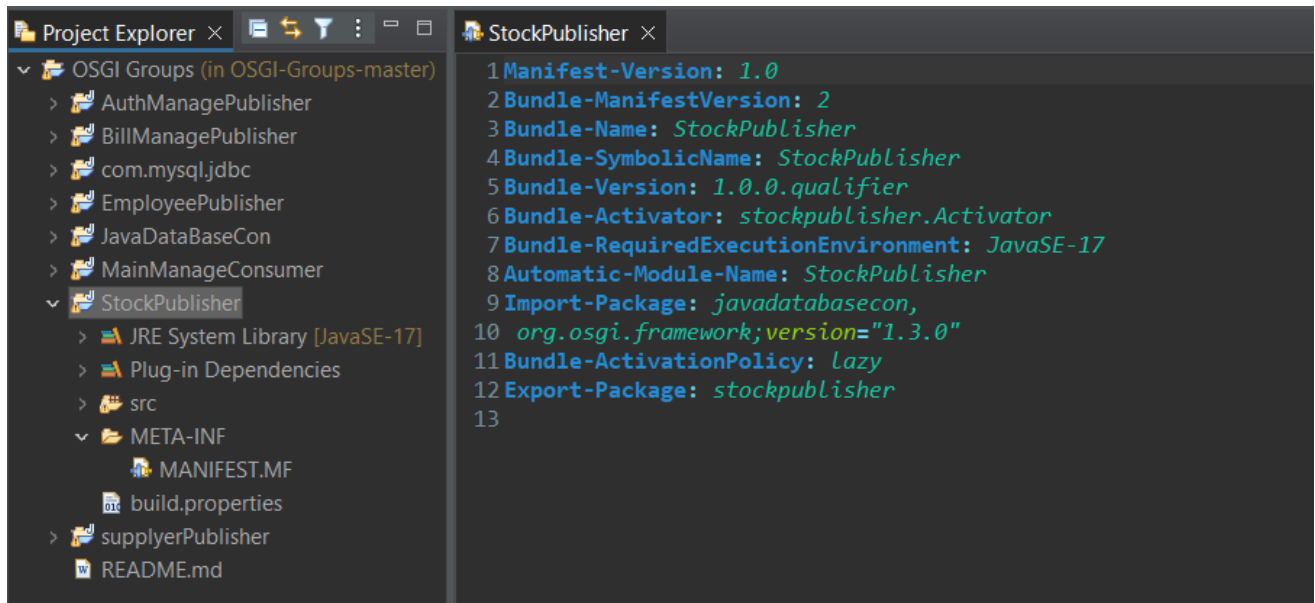
Admin Managing Producer



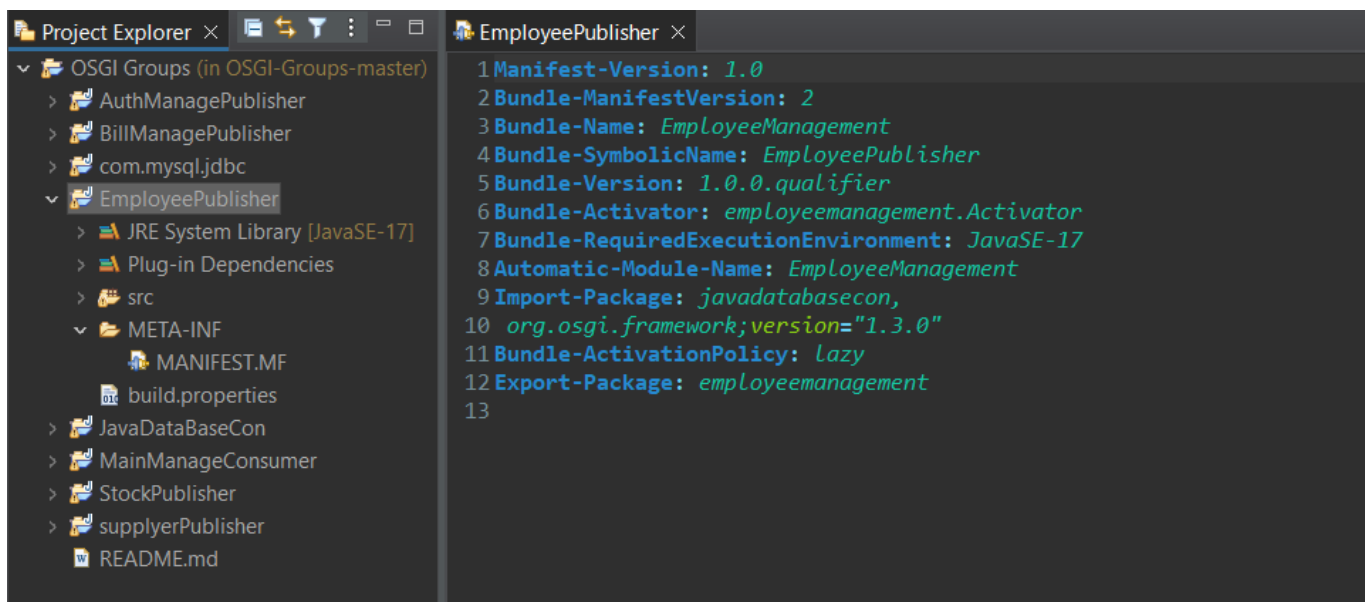
Bill Managing Producer



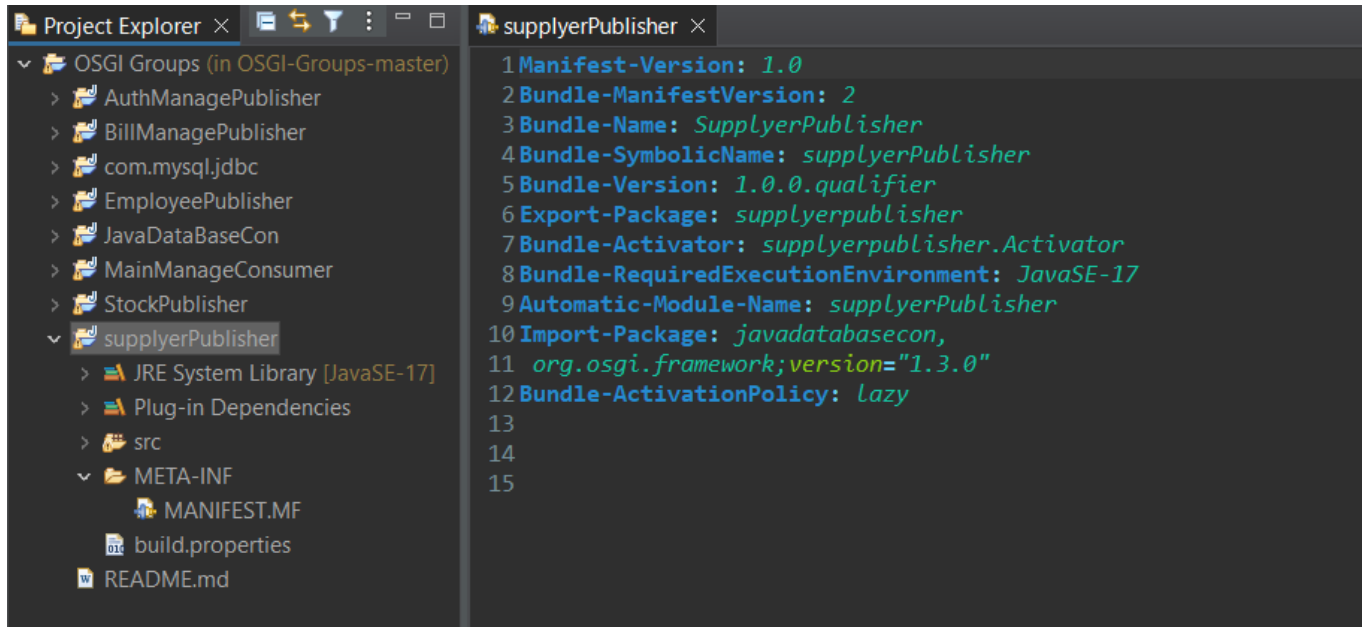
Stock Managing Producer



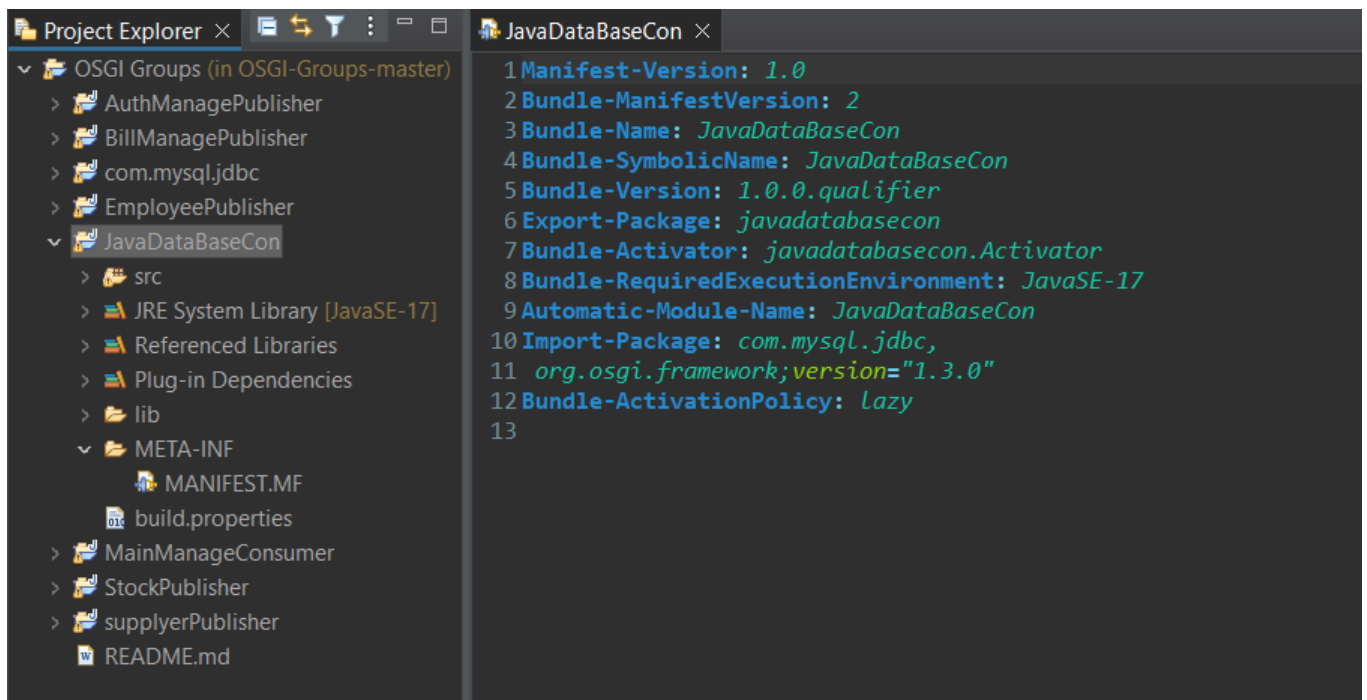
Employee Managing Producer



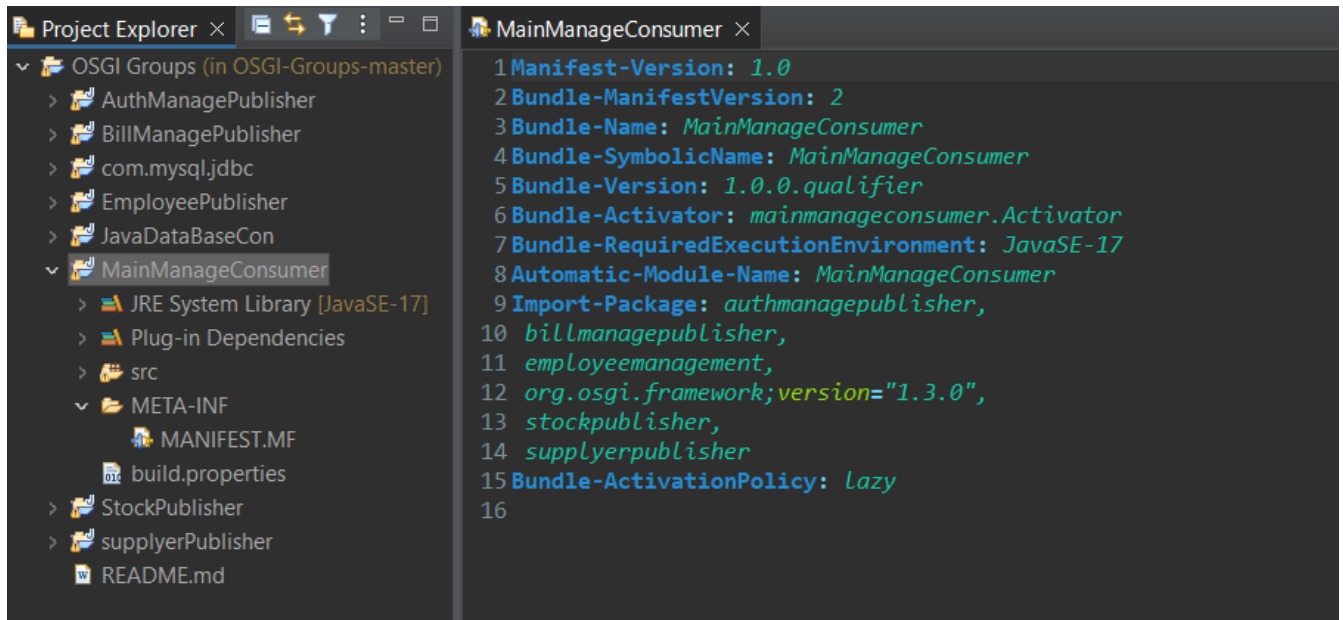
Supplier Managing Producer



Database Managing Producer



Main Managing Consumer



All Commands of Bundle Install and Run in OSGi

Compilation

1. Compile Database connection

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar JavaDataBaseCon\javadatabasecon\*.java
```

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar JavaDataBaseCon\javadatabasecon\*.java.
```

2. Compile Auth Manage Publisher

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar AuthManagePublisher\authmanagepublisher\*.java_
```

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar AuthManagePublisher\authmanagepublisher\*.java
```

3. Compile Bill Manage Publisher

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar BillManagePublisher\billmanagepublisher\*.java_
```

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar BillManagePublisher\billmanagepublisher\*.java
```

4. Compile Employee Publisher

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar EmployeePublisher\employeepublisher\*.java_
```

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar EmployeePublisher\employeepublisher\*.java
```

5. Compile Stock Publisher

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar StockPublisher\stockpublisher\*.java_
```

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar StockPublisher\stockpublisher\*.java
```

6. Compile Supplier Publisher

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar supplierPublisher\suppyerpublisher\*.java_
```

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar supplierPublisher\suppyerpublisher\*.java
```

7. Compile MainManageConsumer

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar MainManageConsumer\mainmanageconsumer\*.java_
```

```
C:\OSGi\felix-framework-4.0.3\bin>javac -cp C:\OSGi\felix-framework-4.0.3\bin\felix.jar MainManageConsumer\mainmanageconsumer\*.java
```

Create JAR with MANIFEST

1. Create JDBC.jar from the Manifest

```
C:\OSGi\felix-framework-4.0.3\bin\com.mysql.jdbc\META-INF>jar cfm JDBC.jar MANIFEST.mf_
```

```
C:\OSGi\felix-framework-4.0.3\bin\com.mysql.jdbc\META-INF>jar cfm JDBC.jar  
MANIFEST.mf
```

2. Create AuthManagePublisher.jar from the Manifest

```
C:\OSGi\felix-framework-4.0.3\bin\AuthManagePublisher>jar cfm authmanagepublisher.jar MANIFEST.mf
```

```
C:\OSGi\felix-framework-4.0.3\bin\AuthManagePublisher>jar cfm  
authmanagepublisher.jar MANIFEST.mf
```

3. Create Bill manage publisher

```
C:\OSGi\felix-framework-4.0.3\bin\BillManagePublisher\billmanagepublisher>jar cfm billmanagepublisher.jar MANIFEST.mf
```

```
C:\OSGi\felix-framework-4.0.3\bin\BillManagePublisher\billmanagepublisher>jar cfm  
billmanagepublisher.jar MANIFEST.mf
```

4. Create Employee Manage publisher

```
C:\OSGi\felix-framework-4.0.3\bin\EmployeePublisher>jar cfm emplieeement.jar MANIFEST.mf
```

```
C:\OSGi\felix-framework-4.0.3\bin\EmployeePublisher>jar cfm  
emplieeement.jar MANIFEST.mf
```

5. Create Main Manage Consumer

```
C:\OSGi\felix-framework-4.0.3\bin>MainManageConsumer>jar cfm mainmanageconsumer.jar MANIFEST.mf_
```

```
C:\OSGi\felix-framework-4.0.3\bin>MainManageConsumer>jar cfm  
mainmanageconsumer.jar MANIFEST.mf
```

6. Create stock publisher

```
C:\OSGi\felix-framework-4.0.3\bin\StockPublisher>jar cfm stockpublisher.jar MANIFEST.mf
```

```
C:\OSGi\felix-framework-4.0.3\bin\StockPublisher>jar cfm stockpublisher.jar  
MANIFEST.mf
```

7. Create supplier publisher

```
C:\OSGi\felix-framework-4.0.3\bin\supplierPublisher>jar cfm supplierpublisher.jar MANIFEST.mf_
```

```
C:\OSGi\felix-framework-4.0.3\bin\supplierPublisher>jar cfm supplierpublisher.jar  
MANIFEST.mf
```

Login to felix:-

```
C:\OSGi\felix-framework-4.0.3>java -jar bin/felix.jar  
WARNING: An illegal reflective access operation has occurred  
WARNING: Illegal reflective access by org.apache.felix.framework.util.SecureAction (file:/C:/OSGi/felix-framework-4.0.3/bin/felix.jar) to method java.net.UR  
LClassLoader.addURL(java.net.URL)  
WARNING: Please consider reporting this to the maintainers of org.apache.felix.framework.util.SecureAction  
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations  
WARNING: All illegal access operations will be denied in a future release  
-----  
Welcome to Apache Felix Gogo  
g!
```

Install OSGi

1. Install AuthManager

```
g! install file:/C:/OSGi/felix-framework-4.0.3/bin/AuthManagerPublisher/authmanagerpublisher.jar_
```

2. Install BillManagerPublishe

```
g! install file:/C:/OSGi/felix-framework-4.0.3/bin/BillManagerPublisher/billmanagerpublisher.jar_
```

3. Install EmployeeManager

```
g! install file:/C:/OSGi/felix-framework-4.0.3/bin/EmployeePublisher/employeepublisher.jar
```

4. Install StockPublisher

```
g! install file:/C:/OSGi/felix-framework-4.0.3/bin/StockPublisher/stockpublisher.jar
```

5. Install SupplierPublisher

```
g! install file:/C:/OSGi/felix-framework-4.0.3/bin/SupplierPublisher/supplierpublisher.jar_
```

6. Install MainManageConsumer

```
g! install file:/C:/OSGi/felix-framework-4.0.3/bin/MainManageConsumer/mainmanageconsumer.jar_
```

Sample Behavior and Outputs

```
id      State      Bundle
0       ACTIVE      org.eclipse.osgi_3.18.200.v20221116-1324
          Fragments=682
1       ACTIVE      org.eclipse.equinox.simpleconfigurator_1.4.200.v20221111-1340
2       ACTIVE      AuthManagePublisher_1.0.0.qualifier
3       ACTIVE      BillManagePublisher_1.0.0.qualifier
4       ACTIVE      EmployeePublisher_1.0.0.qualifier
5       ACTIVE      JavaDataBaseCon_1.0.0.qualifier
6       RESOLVED    MainManageConsumer_1.0.0.qualifier
7       ACTIVE      StockPublisher_1.0.0.qualifier
8       ACTIVE      bcpg_1.72.0
9       ACTIVE      bcprov_1.72.0
10      ACTIVE      bcpkix-jdk15on_1.72.0
```

```
g! start 6
Start Subscriber Service
:::::::::::::::::::::::::::::::::::: Login Page ::::::::::::::::::::::::::::::::::
Enter Username:
sunera
Enter Password:
asa
Login Failed

Do you want to try again? (y/n)
n
Sorry you are not authorized to access this page
g! stop 6
Good Bye!
```

Login

```
Auth Manage Publisher service started
Database Publisher service started
Connected!
Bill Manage Publisher service started
Connected!
Employee Publisher Started
Connected!
Start Subscriber Service
Stock publisher started
Connected!
Supplier Publisher Started
Connected!
:::::::::::::::::::::::::::::::::::: Login Page ::::::::::::::::::::::::::::::::::
Enter Username:
lochani
Enter Password:
lochani
Login Successfull
Welcome to the Wireles waves Admin Panel

-----Home Page-----

1 - Bill Management System
2 - Stcock Management System
3 - Supplier Management System
4 - Employee Management System
5 - Admin Management System

-----
Enter the number of the system you want to access:
```

Admin Management System

```

----- Main Menu -----
1 - Bill Management System
2 - Stock Management System
3 - Supplier Management System
4 - Employee Management System
5 - Admin Management System

-----
Enter the number of the system you want to access:
5

-----Admin Management System-----
1 - Add Admin
2 - Update Admin
3 - View All Admins
4 - Search Admin by ID
5 - Delete Admin

-----
Enter the number of the operation you want to perform:
```

Add Admin

```

-----Admin Management System-----
1 - Add Admin
2 - Update Admin
3 - View All Admins
4 - Search Admin by ID
5 - Delete Admin

-----
Enter the number of the operation you want to perform:
1
Enter User ID:
4
Enter Username:
janani
Enter Email:
janani@gmail.com
Enter Password:
janani
Enter Phone:
0710414545
User Inserted Successfully
```

Update Admin

```
-----Admin Management System-----

1 - Add Admin
2 - Update Admin
3 - View All Admins
4 - Search Admin by ID
5 - Delete Admin

-----
Enter the number of the operation you want to perform:
2
::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Update User by ID from Database
::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::

Enter User ID:
4

ID      User Name      Email      Phone
4      janani      janani@gmail.com      0710414545

Enter New User Name:
jananim
Enter New User Email:
jananim@gmail.com
Enter New User Password:
jananim
Enter New User Phone:
0710418045
User Updated Successfully
```

Retrieve All Admins

```
-----Admin Management System-----
```

```
1 - Add Admin
2 - Update Admin
3 - View All Admins
4 - Search Admin by ID
5 - Delete Admin
```

```
-----
Enter the number of the operation you want to perform:
3
|::::::::::::::::::::::::::::::::::::::::::::::::::
Loading All Users from Database
:::::::::::::::::::::::::::::::::::::::::::::::::::::
```

ID	User Name	Email	Phone
2	lochani	lochani@gmail.com	0701235448
3	mayadunna	mayadunna@gmail.com	0777383828
4	jananim	jananim@gmail.com	0710418045

Delete Admin

```
y
-----Admin Management System-----

1 - Add Admin
2 - Update Admin
3 - View All Admins
4 - Search Admin by ID
5 - Delete Admin

-----
Enter the number of the operation you want to perform:
5
::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Delete User by ID from Database
::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::

Enter User ID:
4
User Deleted Successfully
```

Search Admin

```
y
-----Admin Management System-----

1 - Add Admin
2 - Update Admin
3 - View All Admins
4 - Search Admin by ID
5 - Delete Admin

-----
Enter the number of the operation you want to perform:
4
::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Get User by ID from Database
::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::

Enter User ID:
4
ID      User Name      Email      Phone
4      jananim      jananim@gmail.com      0710418045
```

Bill Management System

```
----- Main Menu -----  
  
1 - Bill Management System  
2 - Stock Management System  
3 - Supplier Management System  
4 - Employee Management System  
5 - Admin Management System  
  
-----  
Enter the number of the system you want to access:  
1  
  
-----Bill Management System-----  
  
1 - Add Bill  
2 - Update Bill  
3 - View All Bills  
4 - Search Bill by ID  
5 - Delete Bill  
  
-----  
Enter the number of the operation you want to perform:
```

Add Bills

```
-----Bill Management System-----  
  
1 - Add Bill  
2 - Update Bill  
3 - View All Bills  
4 - Search Bill by ID  
5 - Delete Bill  
  
-----  
Enter the number of the operation you want to perform:  
1  
Enter Customer Name:  
Janani Mayadunna  
Enter Phone Model:  
SM-458  
Enter Phone Brand:  
Samsung  
Enter Phone IMEI:  
45687123954  
Enter Phone Price:  
85000  
Enter Discount:  
10  
.....  
Total: 84990.0  
.....  
Bill Inserted
```

Update Bills

```
-----
Enter the number of the operation you want to perform:
2
::::::::::::::::::::::::::::::::::::::::::::::::::
Update Bill by Id from Database
::::::::::::::::::::::::::::::::::::::::::::::::::

Enter Bill ID : 10
ID      Customer Name      Phone Model      Phone Brand      Phone IMEI      Phone Price Discount      Total
10      Janani Mayadunna      SM-458           Samsung           45687123954      85000.00      10.00      84990.00
.....

wich field you want to update ?

1. Customer Name
2. Phone Model
3. Phone Brand
4. Phone IMEI
5. Phone Price & Discount
.....

Enter your choice : 2
Enter new Phone Model :
SM-5555
Bill updated successfully
```

View All Bills

```
y
-----Bill Management System-----

1 - Add Bill
2 - Update Bill
3 - View All Bills
4 - Search Bill by ID
5 - Delete Bill

-----
Enter the number of the operation you want to perform:
3
|::::::::::::::::::::::::::::::::::::::::::::::::::
Loading All Bills from Database
::::::::::::::::::::::::::::::::::::::::::::::::::

ID      Customer Name      Phone Model      Phone Brand      Phone IMEI      Phone Price Discount      Total
2      abishek perera      SM-12312         Samsung           34234234324      20000.00      100.00      19900.00
3      Lochani Ranasinghe      HW-132323        Huawie           343433333        50000.00      500.00      49500.00
6      Sahan Perera      IP-123123        Apple            234234324        500000.00      50.00      499950.00
10     Janani Mayadunna      SM-5555          Samsung           45687123954      85000.00      10.00      84990.00
```

Search Bills

```
-----Bill Management System-----

1 - Add Bill
2 - Update Bill
3 - View All Bills
4 - Search Bill by ID
5 - Delete Bill

-----
Enter the number of the operation you want to perform:
4
::::::::::::::::::::::::::::::::::::::::::::::::::
Get Bill by ID from Database
::::::::::::::::::::::::::::::::::::::::::::::::::

Enter Bill ID: 3
ID      Customer Name      Phone Model      Phone Brand      Phone IMEI      Phone Price Discount      Total
3      Lochani Ranasinghe      HW-132323        Huawie           343433333        50000.00      500.00      49500.00
```

Delete Bills

```
-----Bill Management System-----

1  - Add Bill
2  - Update Bill
3  - View All Bills
4  - Search Bill by ID
5  - Delete Bill

-----
Enter the number of the operation you want to perform:
5
::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Delete Bill by Id from Database
::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::

Enter Bill ID : 7
1 bill(s) deleted successfully
```

Stock Management System

```
----- Main Menu -----
1 - Bill Management System
2 - Stock Management System
3 - Supplier Management System
4 - Employee Management System
5 - Admin Management System

-----
Enter the number of the system you want to access:
2

-----Stock Management System-----
1 - Add Stock
2 - Update Stock
3 - View All Stocks
4 - Search Stock by ID
5 - Delete Stock

-----
Enter the number of the operation you want to perform:
```

Add Stocks

```
-----Stock Management System-----
1 - Add Stock
2 - Update Stock
3 - View All Stocks
4 - Search Stock by ID
5 - Delete Stock

-----
Enter the number of the operation you want to perform:
1
Enter stock brand:
A71
Enter stock model:
Samsung
Enter quantity:
25
Enter Unit Price:
85000

Stock added successfully.
```

View All Stocks

```
-----Stock Management System-----

1 - Add Stock
2 - Update Stock
3 - View All Stocks
4 - Search Stock by ID
5 - Delete Stock

-----

Enter the number of the operation you want to perform:
3
::::::::::::::::::::::::::::::::::::::::::::
Retrieving All Stocks
::::::::::::::::::::::::::::::::::::::::::::

Stock ID   Stock Brand Stock Model Quantity   Unit Price
1          A71      Samsung    25         85000.0
2          Apple    14         5          550000.0
3          Huawei   H456       75         65400.0
```

Update Stocks

```
-----Stock Management System-----

1 - Add Stock
2 - Update Stock
3 - View All Stocks
4 - Search Stock by ID
5 - Delete Stock

-----

Enter the number of the operation you want to perform:
2
Enter ID of the stock needs updating : 3

::::::::::::::::::::::::::::::::::::::::::::
..Searching The Stock To Update..
::::::::::::::::::::::::::::::::::::::::::::

Stock ID   Stock Brand Stock Model Quantity   Unit Price
3          Huawei   H456       75         65400.0

Which data needs updating?
1 - Stock Name
2 - Stock Model
3 - Quantity
4 - Unit Price

Enter your choice : 2
Enter new Stock Model : H777
Stock updated successfully
```

Search Stocks

```

y
-----Stock Management System-----

1 - Add Stock
2 - Update Stock
3 - View All Stocks
4 - Search Stock by ID
5 - Delete Stock

-----

Enter the number of the operation you want to perform:
4
Enter Stock ID : 1
|
::::::::::::::::::::::::::::::::::::
..Searching through the Stock..
::::::::::::::::::::::::::::::::::::

Stock ID      Stock Brand  Stock Model  Quantity    Unit Price
1             A71          Samsung     25          85000.0

```

Delete Stocks

```
y  
-----Admin Management System-----  
  
1 - Add Admin  
2 - Update Admin  
3 - View All Admins  
4 - Search Admin by ID  
5 - Delete Admin  
  
-----  
Enter the number of the operation you want to perform:  
5  
::::::::::::::::::::::::::::::::::::::::::  
Delete User by ID from Database  
::::::::::::::::::::::::::::::::::::::::::  
  
Enter User ID:  
4  
User Deleted Successfully
```

Employee Management System

```
----- Main Menu -----
1 - Bill Management System
2 - Stock Management System
3 - Supplier Management System
4 - Employee Management System
5 - Admin Management System

-----
Enter the number of the system you want to access:
4

-----Employee Management System-----
1 - Add Employee
2 - Update Employee
3 - View All Employees
4 - Search Employee by ID
5 - Delete Employee

-----
Enter the number of the operation you want to perform: |
```

Add Employees

```
-----Employee Management System-----
1 - Add Employee
2 - Update Employee
3 - View All Employees
4 - Search Employee by ID
5 - Delete Employee

-----
Enter the number of the operation you want to perform:
1

-----
                        Add Employee info
-----
Enter Employee ID      : 2
Enter Employee Name    : Michelle
Enter Employee Email   : michelle@wireless.com
Enter Employee Address : 173, Traquill terrace, Rajagiriya
Enter Employee Telephone: 0770416548
Enter Employee Type    : Cashier

-----
                        Employee Added Successfully
-----
```


Update Employee

Enter the number of the operation you want to perform:

2

Update Employee Info

Enter Employee ID : 1

Existing Employee Details

Employee ID : 1
Employee Name : sunera
Employee Email : sunera@gmail.com
Employee Address : 123, peralanda, agama
Employee telNumber: 0777504303
Employee Type : Boss

Which field do you want to update?

1. Employee Name
2. Employee Email
3. Employee Address
4. Employee Telephone
5. Employee Type

5

Enter Employee Type : Owner

Updated Employee Details

Employee ID : 1
Employee Name : sunera
Employee Email : sunera@gmail.com
Employee Address : 123, peralanda, agama
Employee Telephone: 0777504303
Employee Type : Owner

View All Employees

-----Employee Management System-----

- 1 - Add Employee
- 2 - Update Employee
- 3 - View All Employees
- 4 - Search Employee by ID
- 5 - Delete Employee

Enter the number of the operation you want to perform:

3

All Employee Info

Employee ID	Employee Name	Employee Email	Employee Address	Employee Telephone	Employee Type
1	Sunera	sunera@gmail.com	123, peralanda, agama	0777504303	Owner
3	Michelle	michelle@wireless.com	173, Traquill terrace, Rajagiriya	0770416548	Cashier

Search Employees

```
-----Employee Management System-----

1 - Add Employee
2 - Update Employee
3 - View All Employees
4 - Search Employee by ID
5 - Delete Employee

-----
Enter the number of the operation you want to perform:
4
-----
                        Employee Info
-----
Enter Employee ID : 3
-----
                        Existing Employee Details
-----
Employee ID      : 3
Employee Name    : Michelle
Employee Email   : michelle@wireless.com
Employee Address : 173, Traquill terrace, Rajagiriya
Employee telNumber: 0770416548
Employee Type    : Cashier
-----
Do you want the tabular view? (y/n)
y
Employee Name    EmployeeEmail      Employee Address      Employee Telephone    Employee Type
-----
Michelle         michelle@wireless.com173, Traquill terrace, Rajagiriya    0770416548           Cashier
```

Delete Employees

```
-----Employee Management System-----

1 - Add Employee
2 - Update Employee
3 - View All Employees
4 - Search Employee by ID
5 - Delete Employee

-----
Enter the number of the operation you want to perform:
5
-----
                        Delete an Employee
-----
Enter Employee ID : 3
-----
Employee with the Employee ID: 3 Deleted Successfully
-----
```

Supply Management System

```
y
----- Main Menu -----
1 - Bill Management System
2 - Stock Management System
3 - Supplier Management System
4 - Employee Management System
5 - Admin Management System

-----
Enter the number of the system you want to access:
3

-----Supplier Management System-----
1 - Add Supplier
2 - Update Supplier
3 - View All Suppliers
4 - Search Supplier by ID
5 - Delete Supplier

-----
Enter the number of the operation you want to perform:
|
```

Add Supplier

```
y
-----Supplier Management System-----
1 - Add Supplier
2 - Update Supplier
3 - View All Suppliers
4 - Search Supplier by ID
5 - Delete Supplier

-----
Enter the number of the operation you want to perform:
1
::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Insert Supplier
::::::::::::::::::::::::::::::::::::::::::::::::::::::::::

Enter supplier ID: 2

Enter Supplier Name: Jason Perera

Enter Mobile Number: 0118746924

Enter Company Name: Jason Pvt Ltd

Enter Address: New Kandy rd, Malabe
|
supplier Added Successfully
```

Update Supplier

```
y
-----Supplier Management System-----

1 - Add Supplier
2 - Update Supplier
3 - View All Suppliers
4 - Search Supplier by ID
5 - Delete Supplier

-----

Enter the number of the operation you want to perform:
2
::::::::::::::::::::::::::::::::::::::::::::::::::
Update Supplier
::::::::::::::::::::::::::::::::::::::::::::::::::

Enter Supplier ID : 2

ID      Supplier Name      Mobile Number      Company Name      Address
2       Jason Perera          0118746924        Jason Pvt Ltd     New Kandy rd, Malabe

Which field you want to update?
1. Supplier Name
2. Mobile Number
3. Company Name
4. Address
Enter your choice : 3
Enter new Company Name : J Holdings
Supplier Updated Successfully
```

View All Suppliers

```
y
-----Supplier Management System-----

1 - Add Supplier
2 - Update Supplier
3 - View All Suppliers
4 - Search Supplier by ID
5 - Delete Supplier

-----

Enter the number of the operation you want to perform:
3
::::::::::::::::::::::::::::::::::::::::::::::::::
Loading All Suppliers from Database
::::::::::::::::::::::::::::::::::::::::::::::::::

ID      Supplier Name      Mobile Number      Company Name      Address
1       Q holdings          0110418076        Q holdings        6th floor, Red cross building, Colombo 7
2       Jason Perera        0118746924        Jason Pvt Ltd     New Kandy rd, Malabe
```

Search Suppliers

```
y
-----Supplier Management System-----

1 - Add Supplier
2 - Update Supplier
3 - View All Suppliers
4 - Search Supplier by ID
5 - Delete Supplier

-----
Enter the number of the operation you want to perform:
4
::::::::::::::::::::::::::::::::::::::::::::::::::
Get Supplier by Id
::::::::::::::::::::::::::::::::::::::::::::::::::

Enter Supplier ID : 2

ID      Supplier Name      Mobile Number  Company Name  Address
2       Jason Perera          0118746924    J Holdings     New Kandy rd, Malabe
```

Delete Suppliers

```
y
-----Supplier Management System-----

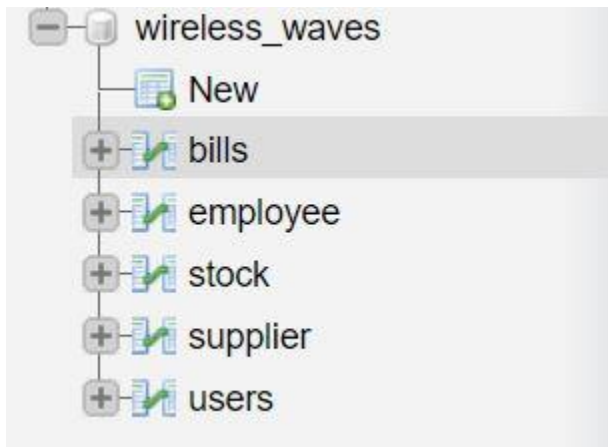
1 - Add Supplier
2 - Update Supplier
3 - View All Suppliers
4 - Search Supplier by ID
5 - Delete Supplier

-----
Enter the number of the operation you want to perform:
5
::::::::::::::::::::::::::::::::::::::::::::::::::
Delete supplier
::::::::::::::::::::::::::::::::::::::::::::::::::

Enter supplier ID : 2

supplier Deleted Successfully
```

MySQL Database



Showing rows 0 - 3 (4 total, Query took 0.0015 seconds.)

SELECT * FROM `bills`

☐

Profiling

[Edit inline]

[Edit]

[Explain SQL]

[Create PHP code]

[Refresh]

☐

Show all

Number of rows:

25

Filter rows:

Search this table

Sort by key:

None

+ Options

</

Showing rows 0 - 0 (1 total, Query took 0.0038 seconds.)

```
SELECT * FROM `employee`
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	empId	empname	email	address	telephone	emptype
<input type="checkbox"/> Edit Copy Delete 1	Sunera	sunera@gmail.com	123, peralanda, agama	0777504303	Owner	

✓ Showing rows 0 - 1 (2 total, Query took 0.0151 seconds.)

```
SELECT * FROM `stock`
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows: Sort by key:

+ Options

			stockID	stockName	stockModel	quantity	unitPrice	
<input type="checkbox"/>				1	A71	Samsung	25	85000.00
<input type="checkbox"/>				2	Apple	14	5	550000.00

✓ Showing rows 0 - 0 (1 total, Query took 0.0031 seconds.)

```
SELECT * FROM `supplier`
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows:

+ Options

				id	supName	telephone	companyName	address
<input type="checkbox"/>				1	Q holdings	0110418076	Q holdings	6th floor, Red cross building, Colombo 7

✓ Showing rows 0 - 1 (2 total, Query took 0.0030 seconds.)

```
SELECT * FROM `users`
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows: Sort by key:

+ Options

				id	username	email	password	phone
<input type="checkbox"/>				2	lochani	lochani@gmail.com	lochani	0701235448
<input type="checkbox"/>				3	mayadunna	mayadunna@gmail.com	mayadunna	0777383828

Individual Contribution

Registration No	Student Name	Individual Contribution
IT21013096	Perera A.S.A	Implement Admin Managing Producer. Implement Bill Managing Producer. Contributed to implement the database connection. Contributed for the final assignment report.
IT21026898	Mayadunna J. B	Implement Stock Managing Producer. Contributed to implement the database connection. Contributed for the final assignment report.
IT21022838	Ranasinghe H.R.A.L.N	Implement Employee Managing Producer. Contributed to implement the database connection. Contributed for the final assignment report.
IT21018282	Udunuwara U.K.C	Implement Supplier Managing Producer. Contributed to implement the database connection. Contributed for the final assignment report.

----- END -----