

# Sri Lanka Institute of Information Technology



B.Sc. (Hons) in Information Technology Specializing Software Engineering

Department of Computer Science and Software Engineering

## **Software Architecture - SE3030**

**Group Number – SE3030\_WE\_56**

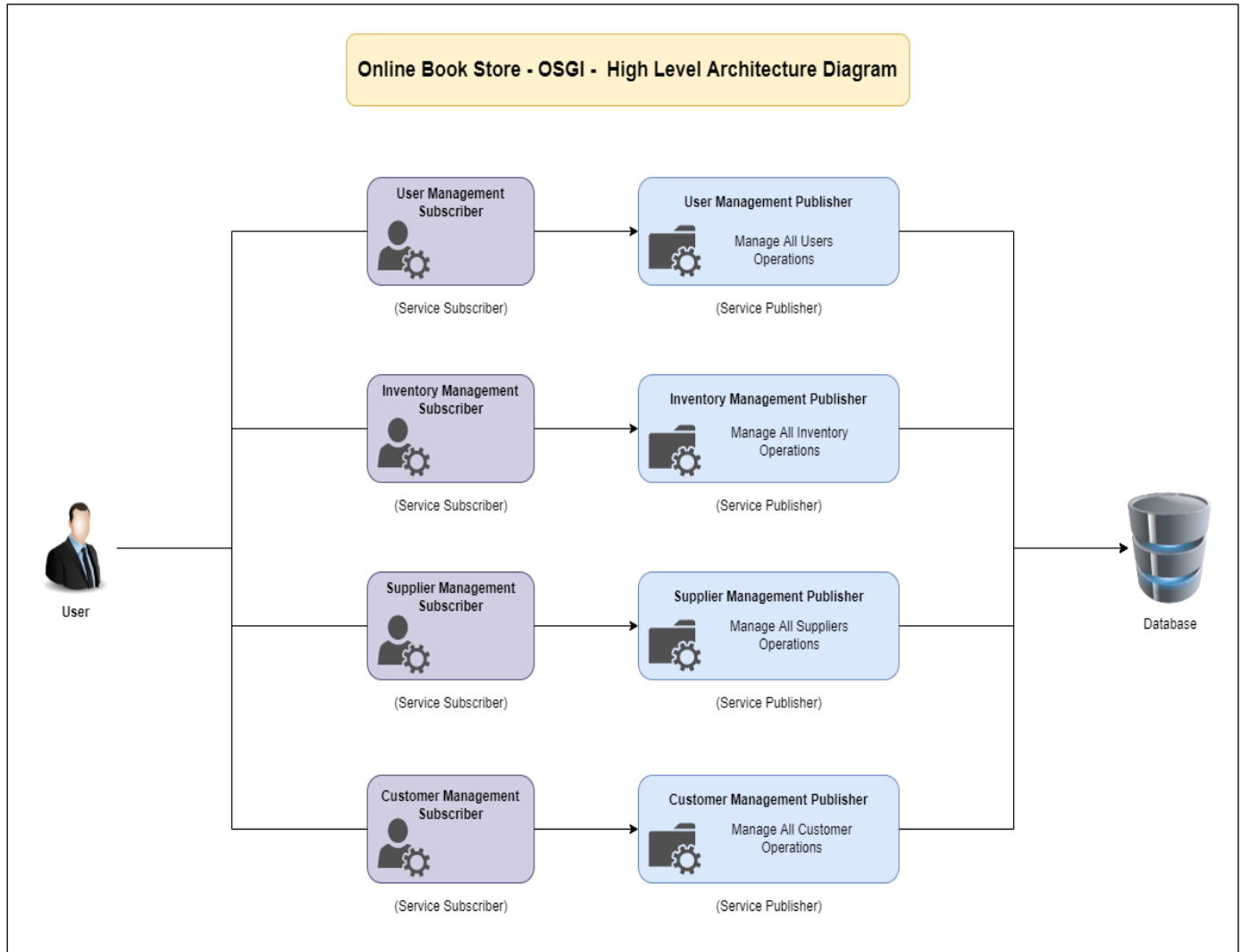
### **Assignment 01 - Report**

## **Online Book Store (OSGI)**

### **Group Details**

<b>Registration No</b>	<b>Name</b>
IT20053314	Gamage J.G.A.C.H
IT20025526	Dunusinghe A.V
IT20022006	Nawanjana M.H
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# Description



The solution demonstrates a Book Store scenario utilizing an OSGI Framework application built according to the microkernel architecture. Customer Management, User Management, Inventory Management, and Supplier Management are among the eight packages included in the solution. Depending on the situation, each management level acts as a publisher or a subscriber.

This solution provides functions to

- Register into the system.
- Browse and customize books.
- Order and request Books
- Supplier management
- Request wholesale order
- Report Generate

Under User Management, users are the people inside the bookstore. In the system, under user management users and employees can be added or register to the system, delete from the system and can retrieve the list of the users. According to the role, the user list report can be generated. And also the user can generate a report of deleted users.

In the Customer Management, when customer accessing the system for the first time he or she will be asked to register to the system. Customers can be added and delete from the system. Once customers visit to the system, customers can view the available book list. Customers can order and request books through the system. Customer can retrieve the list of ordered and requested books and can generate reports also.

Inventory Management manages the books available in the book store. New books can be added to the system, unwanted books can be deleted and can view the available book list in the book store. Also a report can be generated from the book list available in inventory.

Supplier Management manages the book suppliers to the book store. Supplier can register to the system. In here also, the book suppliers can be added, delete and the supplier list can be viewed. And also one supplier can be viewed by supplier Id. Supplier can add and delete wholesale orders of the system. All the wholesale orders can be retrieved as a list from the system. And also one wholesale order can be retrieved through wholesale order id. Supplier can generate reports on supplier list and the list of wholesale orders.

The notion of information hiding in bundle level is achieved, according to the used architecture, by not disclosing any service of the User, Inventory, and Supplier Services bundle to the customer. Since the user, the user's inventory and supplier information will be unique to the book store.

# Manifest implementation

- **User Management Subscriber**

Manifest-Version: 1.0  
Bundle-ManifestVersion: 2  
Bundle-Name: UserManagerSubscriber  
Bundle-SymbolicName: UserManagerSubscriber  
Bundle-Version: 1.0.0.qualifier  
Bundle-Activator: usermanagementsubscriber.Activator  
Bundle-RequiredExecutionEnvironment: JavaSE-1.8  
Automatic-Module-Name: UserManagerSubscriber  
Import-Package: org.osgi.framework;version="1.3.0"  
Bundle-ActivationPolicy: lazy  
Require-Bundle: UserManagerPublisher;bundle-version="1.0.0"

- **Imported Packages**

org.osgi.framework

- **User Management Publisher**

Manifest-Version: 1.0  
Bundle-ManifestVersion: 2  
Bundle-Name: UserManagerPublisher  
Bundle-SymbolicName: UserManagerPublisher  
Bundle-Version: 1.0.0.qualifier  
Bundle-Activator: usermanagementpublisher.Activator  
Bundle-RequiredExecutionEnvironment: JavaSE-1.8  
Automatic-Module-Name: UserManagerPublisher  
Import-Package: org.osgi.framework;version="1.3.0",bookstoredbcontext  
Bundle-ActivationPolicy: lazy  
Export-Package: usermanagementpublisher

- **Imported Packages**

bookstoredbcontext  
org.osgi.framework

- **Exported Packages**

usermanagementpublisher

- **Supplier Management Subscriber**

Manifest-Version: 1.0  
Bundle-ManifestVersion: 2  
Bundle-Name: SupplierManagementSubscriber  
Bundle-SymbolicName: SupplierManagementSubscriber  
Bundle-Version: 1.0.0.qualifier  
Bundle-Activator: suppliermanagementsubscriber.Activator  
Bundle-RequiredExecutionEnvironment: JavaSE-1.8  
Automatic-Module-Name: SupplierManagementSubscriber  
Import-Package: org.osgi.framework;version="1.3.0"  
Bundle-ActivationPolicy: lazy  
Require-Bundle: CustomerManagementPublisher;bundle-version="1.0.0"

- **Imported Packages**

org.osgi.framework

- **Supplier Management Publisher**

Manifest-Version: 1.0  
Bundle-ManifestVersion: 2  
Bundle-Name: SupplierManagementPublisher  
Bundle-SymbolicName: SupplierManagementPublisher  
Bundle-Version: 1.0.0.qualifier  
Bundle-Activator: suppliermanagementpublisher.Activator  
Bundle-RequiredExecutionEnvironment: JavaSE-1.8  
Automatic-Module-Name: SupplierManagementPublisher  
Import-Package: bookstoredbcontext,  
org.osgi.framework;version="1.3.0"  
Bundle-ActivationPolicy: lazy  
Export-Package: SupplierManagementPublisher

- **Imported Packages**

Bookstoredbcontext  
org.osgi.framework

- **Exported Packages**

SupplierManagementPublisher

- **Inventory Management Subscriber**

Manifest-Version: 1.0  
Bundle-ManifestVersion: 2  
Bundle-Name: InventoryManagementSubscriber  
Bundle-SymbolicName: InventoryManagementSubscriber  
Bundle-Version: 1.0.0.qualifier  
Bundle-Activator: inventorymanagementsubscriber.Activator  
Bundle-RequiredExecutionEnvironment: JavaSE-1.8  
Automatic-Module-Name: InventoryManagementSubscriber  
Import-Package: org.osgi.framework;version="1.3.0"  
Bundle-ActivationPolicy: lazy  
Require-Bundle: InventoryManagementPublisher;bundle-version="1.0.0"

- **Imported Packages**

org.osgi.framework

- **Inventory Management Publisher**

Manifest-Version: 1.0  
Bundle-ManifestVersion: 2  
Bundle-Name: InventoryManagementPublisher  
Bundle-SymbolicName: InventoryManagementPublisher  
Bundle-Version: 1.0.0.qualifier  
Bundle-Activator: inventorymanagementpublisher.Activator  
Bundle-RequiredExecutionEnvironment: JavaSE-1.8  
Automatic-Module-Name: InventoryManagementPublisher  
Import-Package: bookstoredbcontext,  
org.osgi.framework;version="1.3.0"  
Bundle-ActivationPolicy: lazy  
Export-Package: inventorymanagementpublisher

- **Imported Packages**

Bookstoredbcontext  
org.osgi.framework

- **Exported Packages**

inventorymanagementpublisher

- **Customer Management Subscriber**

Manifest-Version: 1.0  
Bundle-ManifestVersion: 2  
Bundle-Name: CustomerManagementSubscriber  
Bundle-SymbolicName: CustomerManagementSubscriber  
Bundle-Version: 1.0.0.qualifier  
Bundle-Activator: customermanagementsubscriber.Activator  
Bundle-RequiredExecutionEnvironment: JavaSE-1.8  
Automatic-Module-Name: CustomerManagementSubscriber  
Import-Package: org.osgi.framework;version="1.3.0"  
Bundle-ActivationPolicy: lazy  
Require-Bundle: CustomerManagementPublisher;bundle-version="1.0.0"

- **Imported Packages**

org.osgi.framework

- **Customer Management Publisher**

Manifest-Version: 1.0  
Bundle-ManifestVersion: 2  
Bundle-Name: CustomerManagementPublisher  
Bundle-SymbolicName: CustomerManagementPublisher  
Bundle-Version: 1.0.0.qualifier  
Bundle-Activator: customermanagementpublisher.Activator  
Bundle-RequiredExecutionEnvironment: JavaSE-1.8  
Automatic-Module-Name: CustomerManagementPublisher  
Import-Package: bookstoredbcontext,  
org.osgi.framework;version="1.3.0"  
Bundle-ActivationPolicy: lazy  
Export-Package: customermanagementpublisher

- **Imported Packages**

bookstoredbcontext  
org.osgi.framework

- **Exported Packages**

customermanagementpublisher

## Sample screenshots of behavior and outputs.

### User Management

#### User Dashboard

```
=====User Dashboard=====
1 => User Registration
2 => Get All User Details
3 => Delete User
4 => Employee Registration
5 => Genarate User Detail Report
Please Select Your Option
```

#### User Registration

```
=====User Management Dashboard=====
1 => Add Customer
2 => Get All User Details
3 => Delete User
4 => Employee Registration
5 => Genarate User Detail Report
Please Select Your Option
1
Enter Your First Name :
Malsha
Enter Your Last Name :
Geethmi
Enter Your Email :
masha@gmail.com
Enter Your Address :
Gampha
Enter Your Mobile Number :
0703375581
Enter Your Password :
1qaz2wsx@
User Registration Has Been Successfully
Do you want to add another customer(y/n)
```



## User List Console

```
=====User Management Dashboard=====
1 => Add Customer
2 => Get All User Details
3 => Delete User
4 => Employee Registration
5 => Genarate User Detail Report
Please Select Your Option
2

=====User Details=====
=====
      UserId      First Name      Last Name      Email      Address      Mobile Number
=====
          9      Sachin      Aminda  sachinaminda@gmail.com      kaduwela      0112487086
=====
         11      Ashen      Dunusinghe  avdunusinghe@gmail.com      Colombo      0703375581
=====
         13      Sharli      June    sharlijune@gmail.com      Negambo      078553321
=====
```

## User List Report Generate

```
=====User Management Dashboard=====
1 => Add Customer
2 => Get All User Details
3 => Delete User
4 => Employee Registration
5 => Genarate User Detail Report
Please Select Your Option
5

=====
Customer Role Id => 1 :
Employee Role Id => 2 :
Please Enter User Role Id
1
Report generation has been successfully
```

## User List Report Output

===== User Details Report =====						
UserId	First Name	Last Name	Email	Address	Mobile Number	
9	Sachin	Aminda	sachinaminda@gmail.com	kaduwela	0112487086	
11	Ashen	Dunusinghe	avdunusinghe@gmail.com	Colombo	0703375581	
13	Sharli	June	sharlijune@gmail.com	Negambo	078553321	

## Delete User

```
=====User Management Dashboard=====
1 => Add Customer
2 => Get All User Details
3 => Delete User
4 => Employee Registration
5 => Genarate User Detail Report
Please Select Your Option
3

Please enter User id : 11
Delete user has been successfully..

Do you want to delete another customer(y/n)
```

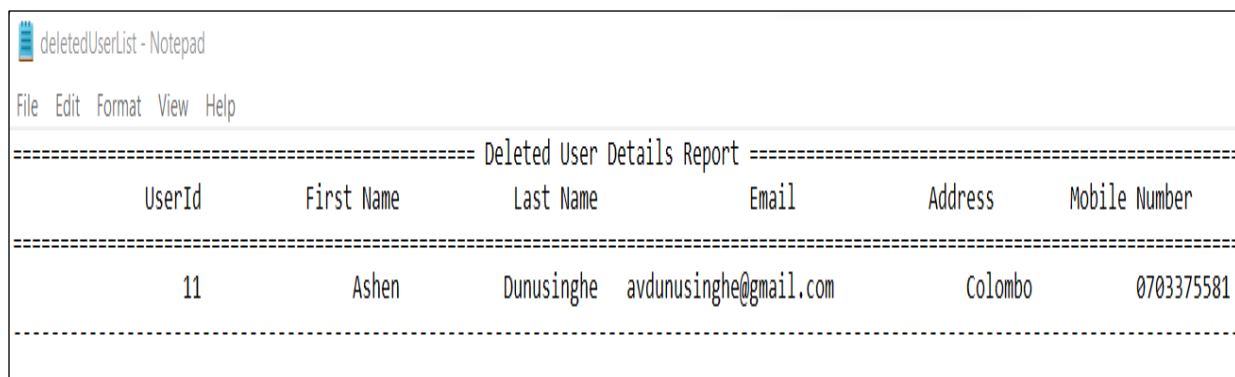
## Retrieve Deleted User Report

```
=====User Management Dashboard=====
1 => Add Customer
2 => Get All User Details
3 => Delete User
4 => Employee Registration
5 => Genarate User Detail Report
6 => Get Deleted User Details
Please Select Your Option
6

=====
Customer Role Id => 1 :
Employee Role Id => 2 :
Please Enter User Role Id
1

=====Deleted User Details=====
-----
      UserId      First Name      Last Name      Email      Address      Mobile Number
-----
          11          Ashen      Dunusinghe      avdunusinghe@gmail.com      Colombo      0703375581
-----
if you want to genarate Report all deleted users (Y/N)
```

## Deleted User Report Output



Deleted User Details Report					
UserId	First Name	Last Name	Email	Address	Mobile Number
11	Ashen	Dunusinghe	avdunusinghe@gmail.com	Colombo	0703375581

## Employee Registration

```
=====User Management Dashboard=====
1 => Add Customer
2 => Get All User Details
3 => Delete User
4 => Employee Registration
5 => Genarate User Detail Report
Please Select Your Option
4
Enter Employee First Name :
Ashen
Enter Employee Last Name :
vimanaga
Enter Employee Email :
ashen@bookstore@gmail.com
Enter Employee Address :
colombo
Enter Employee Mobile Number :
0703375581
Employee Registration Has Been Successfully
Do you want to add another Employee(y/n)
```

## Employee Report Generation

```
=====User Management Dashboard=====
1 => Add Customer
2 => Get All User Details
3 => Delete User
4 => Employee Registration
5 => Genarate User Detail Report
Please Select Your Option
5
=====
Customer Role Id => 1 :
Employee Role Id => 2 :
Please Enter User Role Id
2
Report genaration has been successfully
```

## Employee List Report output

userList - Notepad						
File Edit Format View Help						
===== Employee Details Report =====						
UserId	First Name	Last Name	Email	Address	Mobile Number	
10	Chanukshi	gamage	chanukshi@gmail.com	bandarawela	0112584441	
12	Malsha	Geethmi	malsha@gmail.com	Gampaha	0708556681	
14	Harsha	Prabath	harsha@gmail.com	kaduvela	0112478442	

## Add Admin-Customer

```
1
Enter Your First Name :
Ashen
Enter Your Last Name :
Dunusinghe
Enter Your Email :
avdunusinghe@gmail.com
Enter Your Address :
Colombo
Enter Your Mobile Number :
0703375581
Enter Your Password :
1qaz2wsx@
User Registration Has Been Successfully
Do you want to add another customer(y/n)
```

## Supplier Management

### Supplier Dashboard

```
=====Supplier Dashboard=====

1 => Supplier Registration
2 => Get All Supplier Details
3 => Delete Supplier
4 => Get Supplier by Id
5 => WholeSale Order of Books
6 => Get wholesale order list
7 => Delete Wholesale Order
8 => Get Wholesale Order by Id
9 => Get Supplier Report
10 => Get WholesaleOrder Report
Please Select Your Option
```

### Supplier Registration

```
=====Supplier Dashboard=====

1 => Supplier Registration
2 => Get All Supplier Details
3 => Delete Supplier
4 => Get Supplier by Id
5 => WholeSale Order of Books
6 => Get wholesale order list
7 => Delete Wholesale Order
8 => Get Wholesale Order by Id
Please Select Your Option
1
Enter Your First Name :
Chanukshi
Enter Your Last Name :
Gamage
Enter Your Email :
chanukshi@gmail.com
Enter Your NIC :
986102221V
Enter Your Address :
Bandarawela
Enter Your Mobile Number :
0764084406
Enter Your Company Name :
Atlas
Enter Your Password :
Chanu1998
Supplier Registration Has Been Successfully
Do you want to add another supplier(y/n)
```

## Supplier List Output Console

```
Please Select Your Option
2
```

===== Supplier Details =====							
SupplierId	First Name	Last Name	Email	NIC	Address	Mobile Number	CompanyName
1	Chanukshi	Gamage	chanukshi@gmail.com	986102221V	Bandarawela	0764084406	Atlas
2	Garuka	Mihiran	garuka@gmail.com	981234251V	Galle	0769704510	Promate
3	Ashen	Dunusinghe	ashen@gmail.com	200021234V	Delgoda	0712343212	Ritchard
4	Sachin	Ranasinghe	sachin@gmail.com	982570590V	Horana	0712838354	IMate
5	Tharukshi	Gamage	tharukshi@gmail.com	2002123432V	Kinigama	0701777686	Sammanee
6	Hiruni	Nawanjana	hiruni@gmail.com	2000123421V	Nittabuwa	0715155043	Rathna

## Supplier Retrieve By Id

```
Please Select Your Option
4
Enter Supplier Id :
2
```

2	Garuka	Mihiran	garuka@gmail.com	981234251V	Galle	0769704510	Promate
---	--------	---------	------------------	------------	-------	------------	---------

## Supplier Delete

```
Please Select Your Option
3

Please enter Supplier id : 6
Delete supplier has been successfully..

Do you want to delete another supplier(y/n) n
|
```

## Supplier Generate Report

Please Select Your Option

9

Report generation has been successfully

## Supplier Report Output

Supplier Details Report							
SupplierId	First Name	Last Name	Email	NIC	Address	Mobile Number	CompanyName
1	Chanukshi	Gamage	chanukshi@gmail.com	986102221V	Bandarawela	0764084406	Atlas
2	Garuka	Mihiran	garuka@gmail.com	981234251V	Galle	0769704510	Promate
3	Ashen	Dunusinghe	ashen@gmail.com	200021234V	Delgoda	0712343212	Ritchard
4	Sachin	Ranasinghe	sachin@gmail.com	982570590V	Horana	0712838354	IMate
5	Tharukshi	Gamage	tharukshi@gmail.com	2002123432V	Kinigama	0701777686	Sammanee

## WholeSaleOrder Registration

=====Supplier Dashboard=====

1 => Supplier Registration  
2 => Get All Supplier Details  
3 => Delete Supplier  
4 => Get Supplier by Id  
5 => WholeSale Order of Books  
6 => Get wholesale order list  
7 => Delete Wholesale Order  
8 => Get Wholesale Order by Id  
9 => Get Supplier Report  
10 => Get WholesaleOrder Report  
Please Select Your Option

5

Please enter Number of Books

200

Please enter book name

Singled rule

Please enter Company name

Atlas

WholeSaleOrder has been successfully

Do you want to add another wholesale Order(y/n)

## WholeSaleOrder List Output Console

```
Please Select Your Option
6
```

===== WholeSale Order Details =====			
WholesaleOrderId	No Of Books	Book Name	Supplier Company
1	100	Single ruled	Atlas
2	50	Doubled rule	Atlas
3	100	Singled rule	Promate
4	150	Squared rule	ProMate
5	200	Drawing Book	Atlas

## WholeSaleOrder Delete

```
Please Select Your Option
7

Please enter WholeSale Order id : 5
Delete wholesale order has been successfully..

Do you want to delete another wholesale order(y/n) n|
```

## WholeSaleOrder Retrieve by Id

```
Please Select Your Option
8
Enter WholeSaleOrder Id :
4
|           4           150       Squared rule       ProMate
```



## WholeSaleOrder Report Generate

```
1 => Supplier Registration
2 => Get All Supplier Details
3 => Delete Supplier
4 => Get Supplier by Id
5 => WholeSale Order of Books
6 => Get wholesale order list
7 => Delete Wholesale Order
8 => Get Wholesale Order by Id
9 => Get Supplier Report
10 => Get WholesaleOrder Report
Please Select Your Option
10
WholeSaleOrder Report generation has been successfully
```

## WholeSaleOrder Report Output

wholesaleOrderList - Notepad			
File Edit Format View Help			
===== WholeSaleOrder Details Report =====			
WholesaleOrderId	No Of Books	Book Name	Supplier Company
=====			
1	100	Single ruled	Atlas
2	50	Doubled rule	Atlas
3	100	Singled rule	Promate
4	150	Squared rule	ProMate
=====			

# Inventory Management

## Inventory Dashboard

```
=====Inventory Management Dashboard=====
1 => Save Book
2 => Get All Book Details
3 => Delete Book
4 => Get Book By Id
5 => Genarate Book Details Report
Please Select Your Option
```

## Book Registration

```
=====Inventory Dashboard=====
1 => Save Book
2 => Get All Book Details
3 => Delete Book
4 => Get Book By Id
Please Select Your Option
1
Enter Book Name
Village by the sea
Enter Book Author :
Anita desai
Enter Book ISBN Number :
123421234
Enter Book Price:
800
Book has been Successfully...
```

## Delete Book

```
=====Inventory Management Dashboard=====
1 => Save Book
2 => Get All Book Details
3 => Delete Book
4 => Get Book By Id
5 => Genarate Book Details Report
Please Select Your Option
3

Please enter Book id : 9
Book has been delete successfully..
```

## Retrieve Book details

```
=====Inventory Management Dashboard=====
1 => Save Book
2 => Get All Book Details
3 => Delete Book
4 => Get Book By Id
5 => Genarate Book Details Report
Please Select Your Option
2

=====Books Details=====
BookId      Name      Isbn Number      Author      price
-----
5           Asp.net Core      1           Ashen Dunusinghe      1000
-----
```

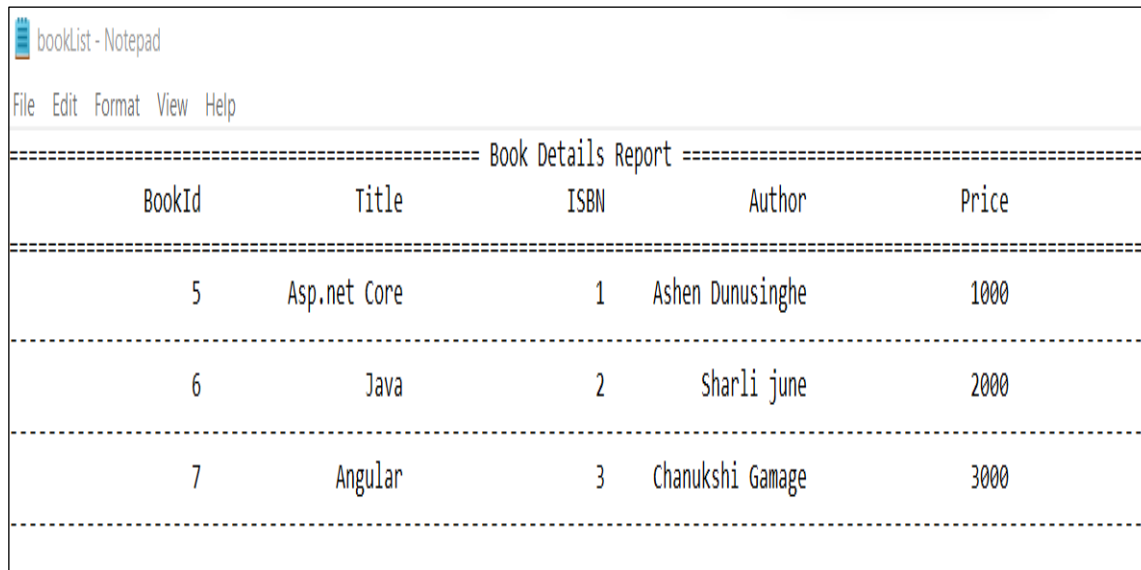
## Retrieve Book details by Id

```
=====Inventory Management Dashboard=====
1 => Save Book
2 => Get All Book Details
3 => Delete Book
4 => Get Book By Id
5 => Genarate Book Details Report
Please Select Your Option
4
Enter Book Id :
6
=====Book Details=====
BookId      :6
Book Name   :Java
ISBN Number :2
Price       :2000
=====
```

## Book details Report generate

```
=====Inventory Management Dashboard=====
1 => Save Book
2 => Get All Book Details
3 => Delete Book
4 => Get Book By Id
5 => Genarate Book Details Report
Please Select Your Option
5
Report genaration has been successfully
```

## Book details report Output



The screenshot shows a Notepad window with a menu bar (File, Edit, Format, View, Help) and a report titled 'Book Details Report'. The report is a table with 5 columns: BookId, Title, ISBN, Author, and Price. It contains 3 rows of data.

BookId	Title	ISBN	Author	Price
5	Asp.net Core	1	Ashen Dunusinghe	1000
6	Java	2	Sharli june	2000
7	Angular	3	Chanukshi Gamage	3000

## Customer Management

### Customer Dashboard

```
=====User Dashboard=====
1 => Customer Registration
2 => Request Book
3 => Get All Book Details
4 => Order Book
5 => Delete Customer
6 => Get Request Book Details
7 => Generate Request Book Details
8 => Generate Order Book Details
Please Select Your Option
```

### Customer Registration

```
=====User Dashboard=====
1 => Customer Registration
2 => Request Book
3 => Get All Book Details
4 => Order Book
5 => Delete Customer
6 => Get Request Book Details
7 => Generate Request Book Details
8 => Generate Order Book Details
Please Select Your Option
1
Enter Your First Name :
Harsha
Enter Your Last Name :
Prabath
Enter Your Email :
harsha@gmail.com
Enter Your Address :
Kaduwela
Enter Your Mobile Number :
0716587253
Enter Your Password :
harsha1999
Registration Has Been Successfully
```

## Delete Customer

```
=====User Dashboard=====
1 => Customer Registration
2 => Request Book
3 => Get All Book Details
4 => Order Book
5 => Delete Customer
6 => Get Request Book Details
7 => Generate Request Book Details
8 => Generate Order Book Details
Please Select Your Option
5

Please enter Customer id : 10
Delete user has been successfully..

Do you want to delete another customer(y/n) :
|
```

## Request Book

```
=====User Dashboard=====
1 => Customer Registration
2 => Request Book
3 => Get All Book Details
4 => Order Book
5 => Delete Customer
6 => Get Request Book Details
7 => Generate Request Book Details
8 => Generate Order Book Details
Please Select Your Option
2
Please enter book name
Jane Eyre
Please enter author name
Charlotte Bronte
Please enter messeage
Wish to read this.
Request book has been successfully

Do you want to request another book(y/n) n
|
```

## Retrieve Requested Book Details

```
=====User Dashboard=====
1 => Customer Registration
2 => Request Book
3 => Get All Book Details
4 => Order Book
5 => Delete Customer
6 => Get Request Book Details
7 => Generate Request Book Details
8 => Generate Order Book Details
Please Select Your Option
6
|
=====Request Books Details=====
      Id      Book Name      Author      Message
-----
1      Twilight      Stephenie Meyer It's very interesting story and request all parts of the novel.
-----
2      The Great Gatsby      F.Scott Fitzgerald Want this book within 3 days.
-----
3      Harry Potter      J.K. Rowling      Wish to read this.
-----
4      Harry Potter      J.K. Rowling      Wish to read this
-----
5      Jane Eyre      Charlotte Bronte      Wish to read this.
-----
```

## Customer Order Book

```
=====User Dashboard=====
1 => Customer Registration
2 => Request Book
3 => Get All Book Details
4 => Order Book
5 => Delete Customer
6 => Get Request Book Details
7 => Generate Request Book Details
8 => Generate Order Book Details
Please Select Your Option
4
Please enter book name
The Lord of the Rings
Please enter your address
Nittambuwa
Order has been successfully
Do you want to request another book(y/n) n
|
```

## Get Book Details

```
=====User Dashboard=====
1 => Customer Registration
2 => Request Book
3 => Get All Book Details
4 => Order Book
5 => Delete Customer
6 => Get Request Book Details
7 => Generate Request Book Details
8 => Generate Order Book Details
Please Select Your Option
3
|
=====Books Details=====
BookId      Title      Isbn Number      Author      price
-----
5      The Great Gatsby      1      F.Scott Fitzgerald      950
6      The Lord of the Rings      2      J.R.R. Tolkien      850
7      Nineteen Eighty-Four      3      Georgy Orwell      790
8      The Catcher in the Rye      4      J.D. Salinger      890
-----
```

## Order report generate

```
=====User Dashboard=====
1 => Customer Registration
2 => Request Book
3 => Get All Book Details
4 => Order Book
5 => Delete Customer
6 => Get Request Book Details
7 => Generate Request Book Details
8 => Generate Order Book Details
Please Select Your Option
8
Order Book Report generation has been successfully
```

## Order Report output

Order Book Details Report		
Book Id	Book Name	Address
1	Harry Potter	Gampaha
2	The Lord of the Rings	Nittambuwa

## Request report generate

```
=====User Dashboard=====
1 => Customer Registration
2 => Request Book
3 => Get All Book Details
4 => Order Book
5 => Delete Customer
6 => Get Request Book Details
7 => Generate Request Book Details
8 => Generate Order Book Details
Please Select Your Option
7
Request Book Report generation has been successfully
```

## Request report output

Request Book Details Report			
Book Id	Book Name	Author	Message
1	Twilight	Stephenie Meyer	It's very interesting story and request all parts of the novel.
2	The Great Gatsby	F.Scott Fitzgerald	Want this book within 3 days.
3	Harry Potter	J.K. Rowling	Wish to read this.
4	Harry Potter	J.K. Rowling	Wish to read this
5	Jane Eyre	Charlotte Bronte	Wish to read this.



## Contribution

Registration No	Name	Implemented Bundles
IT20053314	Gamage J.G.A.C.H	SupplierManagementPublisher SupplierManagementSubscriber
IT20025526	Dunusinghe A.V	UserManagementPublisher UserManagementSubscriber
IT20022006	Nawanjana M.H	CustomerManagementPublisher CustomerManagementSubscriber
IT20069568	Vernan S.J	InventoryManagementPublisher InventoryManagementSubscriber