



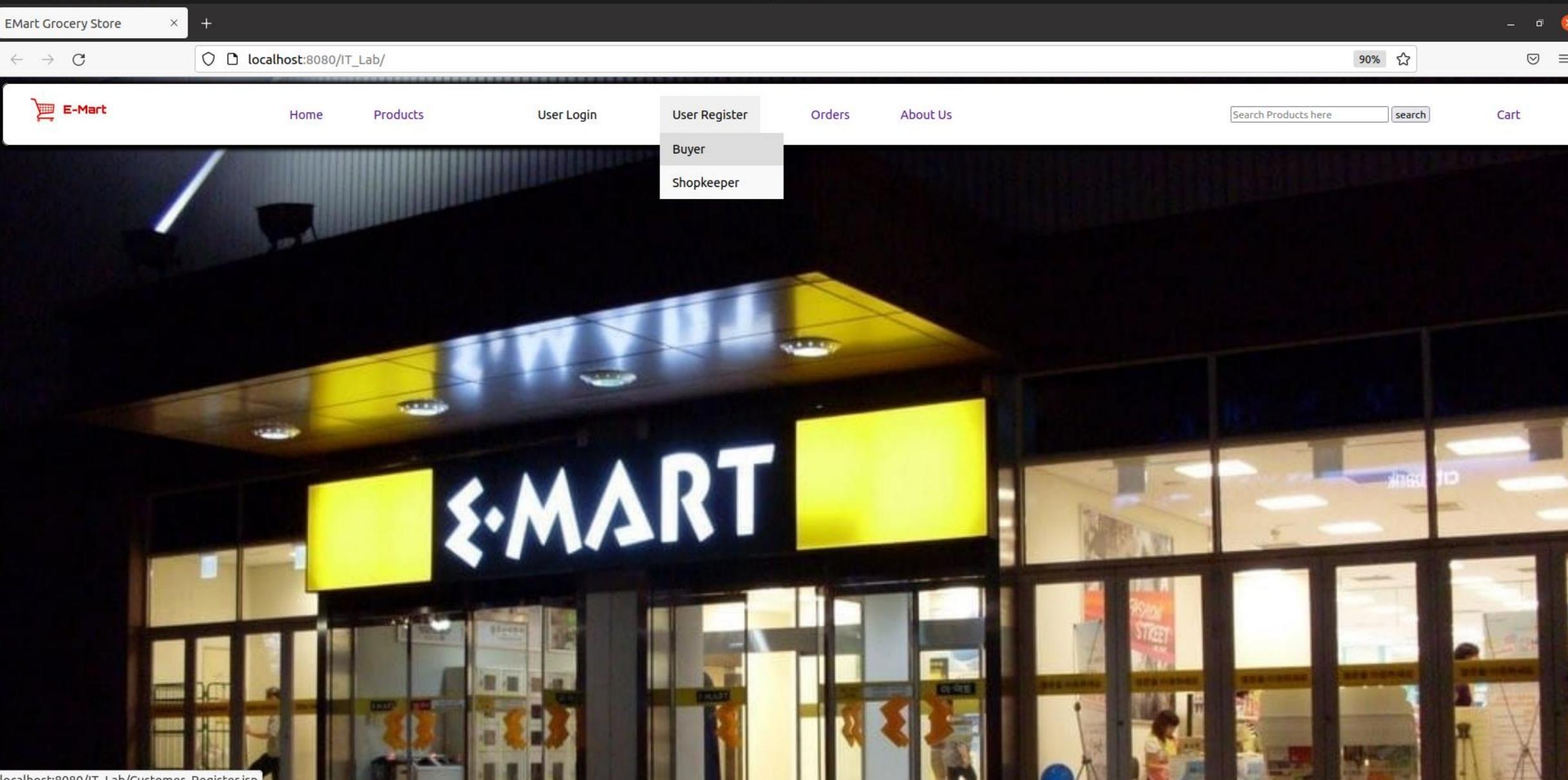
The screenshot shows a web browser window for "EMart Grocery Store" on the address bar. The URL is "localhost:8080/IT_Lab/". The browser interface includes standard controls like back, forward, and search, along with a zoom level of 90% and a star icon. The main content area displays a night photograph of a real-world E-Mart supermarket. The store's exterior is dark, with its name "E-MART" brightly lit in white on a yellow sign above the entrance. The glass doors and windows reflect the surrounding environment. The browser's header also features a navigation menu with links for Home, Products, User Login, User Register, Orders, and About Us, as well as a search bar and a cart icon.

Lab Assignment – Internet Technologies

1)

a. Should have two user types – buyer and shopkeeper (2 points)

Activities Firefox Web Browser Nov 6 14:31

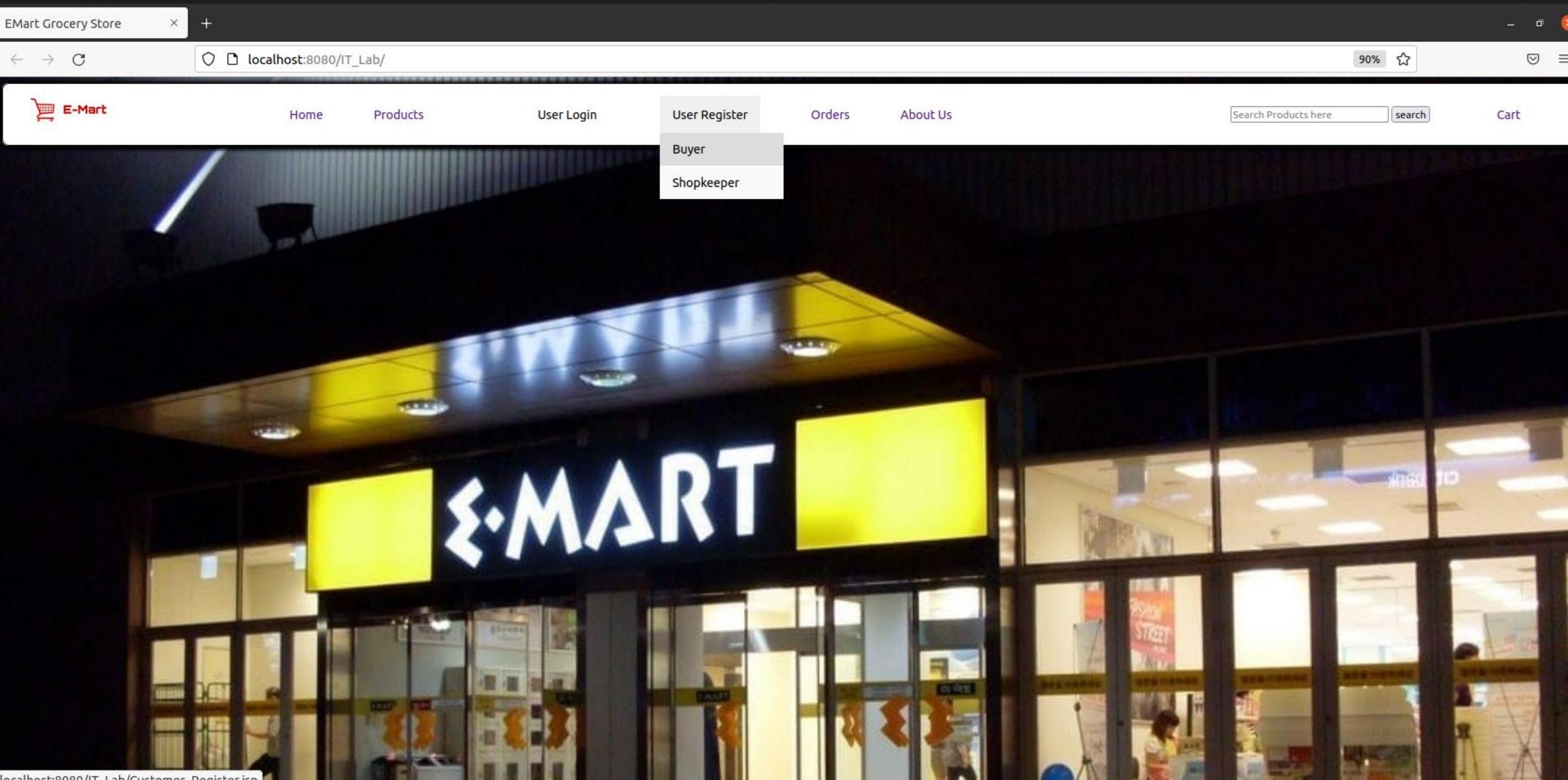
EMart Grocery Store + 90% 

localhost:8080/IT_Lab/

E-Mart Home Products User Login User Register Orders About Us Search Products here search Cart

Buyer
Shopkeeper

localhost:8080/IT_Lab/Customer_Register.jsp



Activities Terminal ▾

Nov 6 14:29 •

☰ 🔍 ⌂ ⌂ 🔋

deepika@deepika-VirtualBox: ~

```
deepika@deepika-VirtualBox:~$ mysql -u root -p
```

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 87
Server version: 8.0.31-0ubuntu0.20.04.1 (Ubuntu)

Copyright (c) 2000, 2022, Oracle and/or its affiliates.

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> show databases;
```

Database
Company
Grocery_Store
information_schema
mysql
performance_schema
sys

6 rows in set (0.00 sec)

```
mysql> use Grocery_Store;
```

Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed

```
mysql> show tables;
```

Tables_in_Grocery_Store
Customer_Register
Items
Shopkeeper_Register
cart
orders

5 rows in set (0.00 sec)

```
mysql> █
```

Activities

Firefox Web Browser

Nov 6 14:31

●



EMart Grocery Store



localhost:8080/IT_Lab/

90%



The image shows a screenshot of a web browser window for 'EMart Grocery Store' at 'localhost:8080/IT_Lab/'. The page features a large background photograph of a modern grocery store entrance at night, with the 'E-MART' logo prominently displayed above the glass doors. At the top, there is a navigation bar with links for 'Home', 'Products', 'User Login', 'User Register', 'Orders', and 'About Us'. A search bar and a 'Cart' link are also present. A dropdown menu under the 'User Login' link shows options for 'Buyer' and 'Shopkeeper'. The URL in the address bar is 'localhost:8080/IT_Lab/'.

E-Mart

Home Products User Login User Register Orders About Us

Search Products here search Cart

Buyer Shopkeeper

localhost:8080/IT_Lab/

i. Have relevant forms for registration of users

Activities Firefox Web Browser Nov 6 14:31

EMart Grocery Store 90%

localhost:8080/IT_Lab/Customer_Login.jsp

E-Mart Home Products User Login User Register Orders About Us Search Products here search Cart

Buyer Shopkeeper

Customer Login

Email:

Password:

[Login](#)

New User [Register](#)

localhost:8080/IT_Lab/Customer_Login.jsp



Activities Firefox Web Browser Nov 6 14:31

EMart Grocery Store + localhost:8080/IT_Lab/ShopkeeperLogin.jsp 90% ⚡

E-Mart Home Products User Login User Register Orders About Us Search Products here search Cart

Buyer Shopkeeper

Shopkeeper Login

Email:

Password:

[Login](#)

New Shopkeeper [Register](#)

localhost:8080/IT_Lab/ShopkeeperLogin.jsp

This screenshot shows a web browser window for 'EMart Grocery Store' on the 'ShopkeeperLogin.jsp' page. The URL in the address bar is 'localhost:8080/IT_Lab/ShopkeeperLogin.jsp'. The page title is 'Shopkeeper Login'. The navigation menu at the top includes links for Home, Products, User Login, User Register, Orders, About Us, a search bar, and a Cart icon. A secondary menu below the main one shows 'Buyer' and 'Shopkeeper' options, with 'Shopkeeper' currently selected. The main content area contains fields for Email and Password, a 'Login' button, and a link for New Shopkeeper Register.



Activities Firefox Web Browser Nov 6 14:34

EMart Grocery Store + localhost:8080/IT_Lab/Customer_Register.jsp 90% ⭐

E-Mart Home Products User Login User Register Orders About Us Search Products search Cart

Customer Register

Name:	<input type="text" value="Enter your Name"/>
Email:	<input type="text" value="It should contain @.."/>
Password:	<input type="password"/>
Mobile:	<input type="text"/>
Address:	<input type="text"/>
Area PIN:	<input type="text"/>

Register

Already Registered [Login](#)



Activities Firefox Web Browser Nov 6 14:34

EMart Grocery Store + localhost:8080/IT_Lab/ShopkeeperRegister.jsp 90% ⭐

E-Mart Home Products User Login User Register Orders About Us Search Products search Cart

Shopkeeper Register

Name:	<input type="text" value="Enter your Name"/>
Email:	<input type="text" value="It should contain @.."/>
Password:	<input type="password"/>
Mobile:	<input type="text"/>
Address:	<input type="text"/>
Area PIN:	<input type="text"/>

Register

Already Registered [Login](#)

ii. Have relevant database for the users and their information

Activities Terminal ▾ Nov 6 17:57 • deepika@deepika-VirtualBox: ~

```
mysql> desc Customer_Register;
+-----+-----+-----+-----+-----+
| Field | Type  | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| Name  | varchar(50) | NO  |   | NULL    |       |
| Email | varchar(50) | NO  | PRI | NULL    |       |
| Password | varchar(20) | NO  |   | NULL    |       |
| Mobile | varchar(20) | NO  |   | NULL    |       |
| Address | varchar(100) | NO  |   | NULL    |       |
| Area_PIN | int    | NO  |   | NULL    |       |
+-----+-----+-----+-----+-----+
6 rows in set (0.02 sec)

mysql> desc Shopkeeper_Register;
+-----+-----+-----+-----+-----+
| Field | Type  | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| Name  | varchar(50) | NO  |   | NULL    |       |
| Email | varchar(50) | NO  | PRI | NULL    |       |
| Password | varchar(50) | NO  |   | NULL    |       |
| Mobile | varchar(20) | NO  |   | NULL    |       |
| Address | varchar(100) | NO  |   | NULL    |       |
| Area_PIN | bigint | NO  |   | NULL    |       |
+-----+-----+-----+-----+-----+
6 rows in set (0.02 sec)

mysql> desc Items;
+-----+-----+-----+-----+-----+
| Field | Type  | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| Name  | varchar(50) | NO  | PRI | NULL    |       |
| Category | varchar(50) | NO  |   | NULL    |       |
| Price  | int    | NO  |   | NULL    |       |
| Image   | blob   | NO  |   | NULL    |       |
| Stock   | int    | NO  |   | NULL    |       |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> desc cart;
+-----+-----+-----+-----+-----+
| Field | Type  | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| UserName | varchar(50) | NO  |   | NULL    |       |
| ItemName | varchar(50) | NO  |   | NULL    |       |
| ItemPrice | int    | NO  |   | NULL    |       |
| ItemQuantity | int   | NO  |   | NULL    |       |
| TotalPrice | int   | NO  |   | NULL    |       |
| Category | varchar(20) | NO  |   | NULL    |       |
+-----+-----+-----+-----+-----+
```

The information entered here gets stored in Customer_Register table in Grocery_Store database

Activities Firefox Web Browser Nov 6 14:36

EMart Grocery Store localhost:8080/IT_Lab/Customer_Register.jsp 90% Cart

E-Mart Home Products User Login User Register Orders About Us Search Products search

Customer Register

Name: Deepika

Email: deepika@gmail.com

Password:

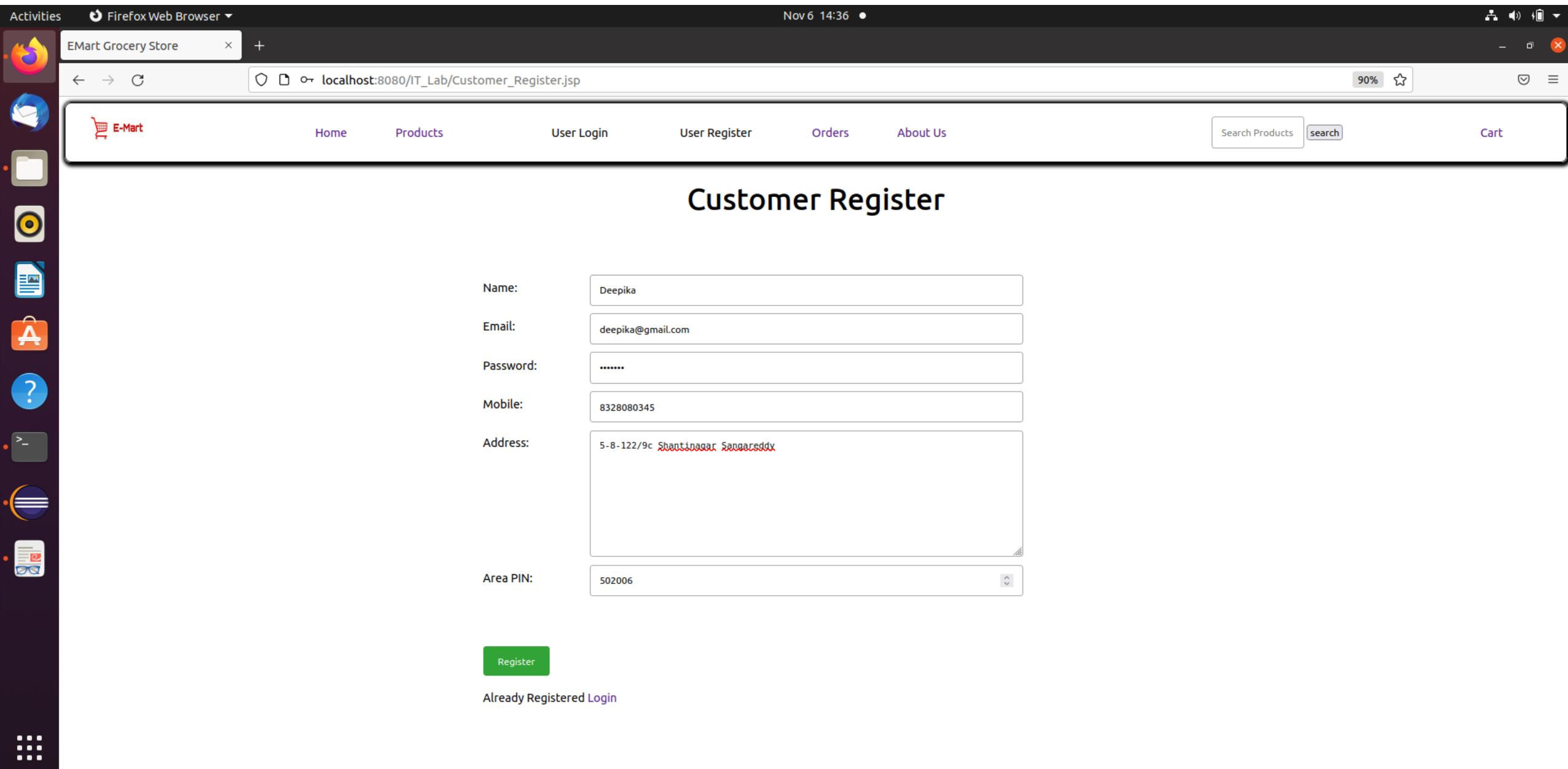
Mobile: 8328080345

Address: 5-8-122/9c Shantinagar Sangareddy

Area PIN: 502006

[Register](#)

Already Registered [Login](#)



The information entered here gets stored in Shopkeeper_Register table in Grocery_Store database

Activities Firefox Web Browser Nov 6 14:37

EMart Grocery Store + 90%  

E-Mart Home Products User Login User Register Orders About Us Search Products search Cart

Shopkeeper Register

Name: Manish

Email: manishporsche2003@gmail.com

Password:

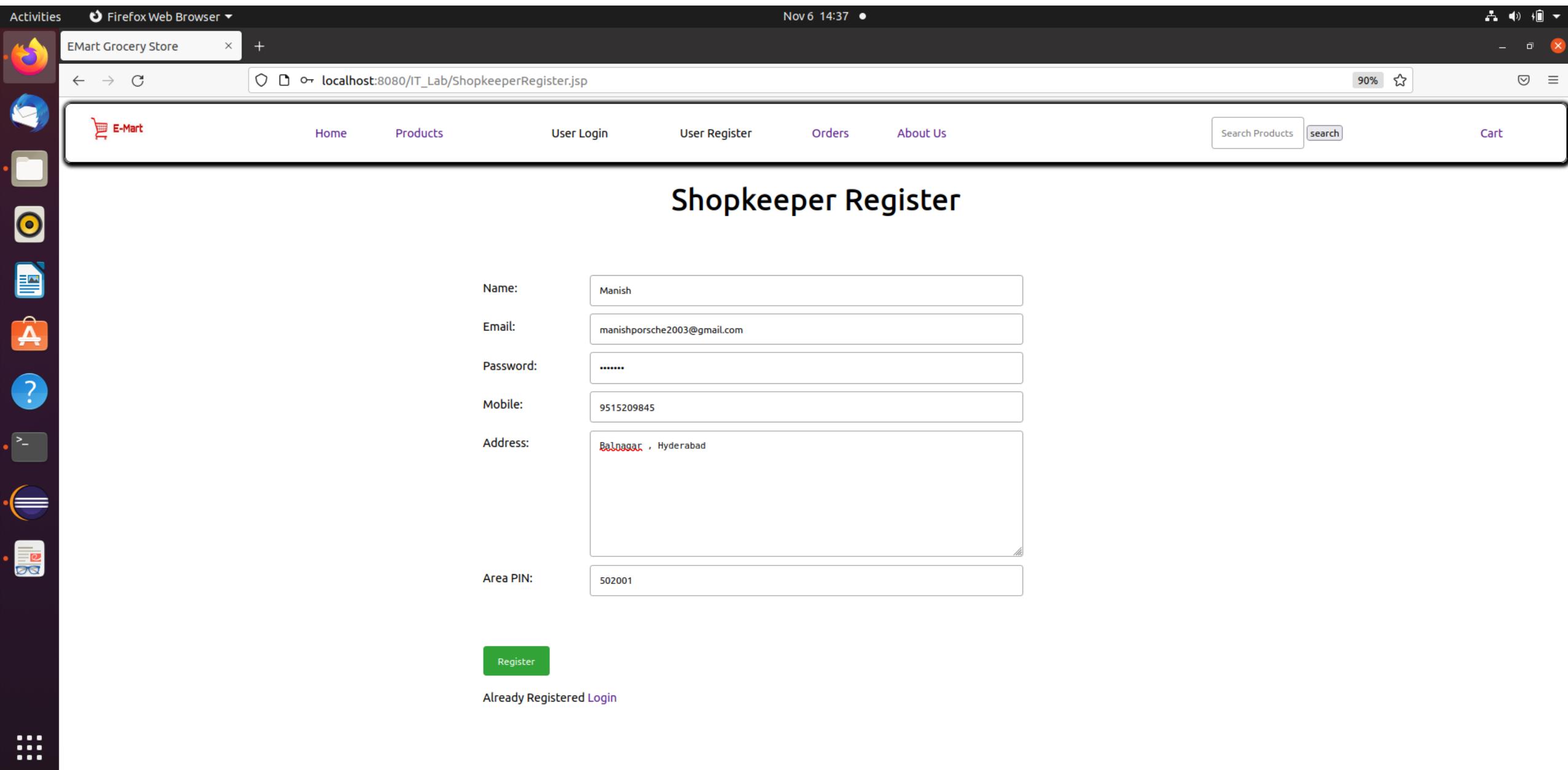
Mobile: 9515209845

Address: Balnagar , Hyderabad

Area PIN: 502001

[Register](#)

Already Registered [Login](#)

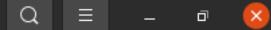


Activities

Terminal ▾

Nov 6 18:22 •

deepika@deepika-VirtualBox: ~



```
+-----+  
10 rows in set (0.00 sec)
```

```
mysql> select * from Customer_Register;
```

Name	Email	Password	Mobile	Address	Area_PIN
Deepika	deepika@gmail.com	Deep@12	8328080345	5-8-122/9c Shantinagar Sangareddy	502006
Karthikeya	karthikeya2003@gmail.com	Kar@12	9876543211	Mothinagar	502001
Tejas	tejas@gmail.com	Tej12	9440937165	5-9-122 , Brundhvan colony , Sangareddy	502006

```
+-----+  
3 rows in set (0.08 sec)
```

```
mysql> select * from Shopkeeper_Register;
```

Name	Email	Password	Mobile	Address	Area_PIN
Manish	manishporsche2003@gmail.com	Manu@12	9515209845	Balnagar , Hyderabad	502001
Saniya	saniya@gmail.com	san@12	6302814770	5-8-123/9 Shanthinagar Sangareddy	502001

```
+-----+  
2 rows in set (0.00 sec)
```

```
mysql> [ ]
```

The info is stored as shown

b) . Have provision for login (2 points) i. Maintain session across multiple request , cookies are used to store user information as long as the user is logged in

A screenshot of the Eclipse IDE interface. The top bar shows 'Activities' and the title 'Eclipse IDE for Enterprise Java and Web Developers - 2022-09'. The status bar indicates 'Nov 6 17:01'. The central workspace contains two open files: 'Check_CustomerLogin.java' and 'home.jsp'. The 'Check_CustomerLogin.java' file is a Java servlet with code for connecting to a MySQL database and handling user login. The 'home.jsp' file is a JSP page that includes 'header.jsp' and 'footer.html', and features a background image. The left sidebar shows the 'Project Explorer' with various Java classes and JSP files listed under the 'src/main/java' package. The bottom navigation bar includes tabs for 'Markers', 'Properties', 'Servers', 'Data Source Explorer', 'Snippets', 'Terminal', and 'Console'. The 'Console' tab is active, showing a stack trace from Tomcat v10.0 Server at localhost.

This page opens when the customer is logged in, he has provision to search for item , addtocart ,delete item from cart, ,place order ,No of items to display per page and logout.

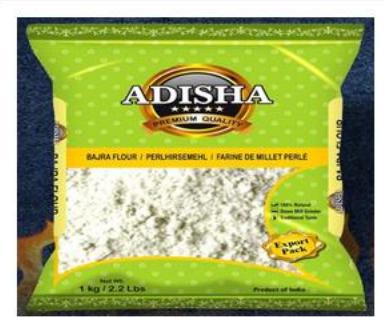
Activities Firefox Web Browser Nov 6 14:36

EMart Grocery Store + 90%

localhost:8080/IT_Lab/ProductServlet

E-Mart Home Products Logout Orders About Us Search Products here search Cart

Enter Number of Items to Display : 10

 <p>Apple 1kg Rs.100 Left Stock :160kg</p> <p><input type="text" value="0"/> - + Add To Cart</p>	 <p>Bajra atta 1kg Rs.120 Left Stock :50kg</p> <p><input type="text" value="0"/> - + Add To Cart</p>	 <p>Beetroot 1kg Rs.50 Left Stock :200kg</p> <p><input type="text" value="0"/> - + Add To Cart</p>	 <p>Bitter Gourd 1kg Rs.30 Left Stock :55kg</p> <p><input type="text" value="0"/> - + Add To Cart</p>	 <p>Blackgram 1kg Rs.150 Left Stock :160kg</p> <p><input type="text" value="0"/> - + Add To Cart</p>
				

This page opens when the shopkeeper is logged in , he has the provision to add , update , delete item and logout

Activities Firefox Web Browser Nov 6 14:37

EMart Grocery Store + 90%

localhost:8080/IT_Lab/ProductServlet

E-Mart Home Products Add Item Logout Orders About Us Search Products here search Cart

Enter Number of Items to Display : 10

Image	Item Name	Weight	Price	Stock Level	Action	Action
	Apple	1kg	Rs.100	Left Stock :160kg	<input type="button" value="Update Stock"/>	<input type="button" value="Delete Item"/>
	Bajra atta	1kg	Rs.120	Left Stock :50kg	<input type="button" value="Update Stock"/>	<input type="button" value="Delete Item"/>
	Beetroot	1kg	Rs.50	Left Stock :200kg	<input type="button" value="Update Stock"/>	<input type="button" value="Delete Item"/>
	Bitter Gourd	1kg	Rs.30	Left Stock :55kg	<input type="button" value="Update Stock"/>	<input type="button" value="Delete Item"/>
	Blackgram	1kg	Rs.150	Left Stock :160kg	<input type="button" value="Update Stock"/>	<input type="button" value="Delete Item"/>
					<input type="button" value="Update Stock"/>	<input type="button" value="Delete Item"/>
					<input type="button" value="Update Stock"/>	<input type="button" value="Delete Item"/>
					<input type="button" value="Update Stock"/>	<input type="button" value="Delete Item"/>
					<input type="button" value="Update Stock"/>	<input type="button" value="Delete Item"/>
					<input type="button" value="Update Stock"/>	<input type="button" value="Delete Item"/>

When the shopkeeper login and click on orders , he has provision to view all user orders and query between dates

Activities Firefox Web Browser Nov 6 18:48

EMart Grocery Store (1) WhatsApp localhost:8080/IT_Lab/BuyNoworders 90% Cart

E-Mart Home Products Add Item Logout Orders About Us Search Products here search

Orders between Dates dd / mm / yyyy and dd / mm / yyyy Enter Enter UserName to get his purchases :

Orders

Image	ItemName	UserName	Category	ItemPrice	Quantity	TotalPrice	Ordered Date
	Barley	tejas@gmail.com	Pulses&cereals	120	1	Rs.120	2022-11-05
	Brinjal	tejas@gmail.com	vegetable	35	1	Rs.35	2022-11-05
	Butter	tejas@gmail.com	dairy	300	1	Rs.300	2022-11-05
							

Cookies are destroyed when the user clicks on log out

Eclipse IDE for Enterprise Java and Web Developers - 2022-09 • Nov 6 18:45

Desktop - IT_Lab/src/main/java/logout.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Project Explorer X logout.java

```
19
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54
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56
57
```

```
/*
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
 */
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    Cookie cookie = null;
    Cookie[] cookies = null;

    // Get an array of Cookies associated with this domain
    cookies = request.getCookies();

    // Set response content type
    response.setContentType("text/html");

    if (cookies != null) {

        for (int i = 0; i < cookies.length; i++) {
            cookie = cookies[i];
            if (cookie.getName().equals("username") || cookie.getName().equals("userType")) {

                cookie.setMaxAge(0);
                response.addCookie(cookie);
            }
        }
        response.sendRedirect("home.jsp");
    }
}

/*
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    doGet(request, response);
}
```

Markers Properties Servers Data Source Explorer Snippets Terminal Console X

Tomcat v10.0 Server at localhost [Apache Tomcat] /home/deepika/p2/pool/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux.x86_64_17.0.4.v20221004-1257/jre/bin/java (06-Nov-2022, 4:01:55 pm) [pid: 16792]

Writable Smart Insert 1:1:0

c. Shopkeeper can update the stock (2 points)

Activities Firefox Web Browser Nov 6 14:45

EMart Grocery Store localhost:8080/IT_Lab/ProductServlet

E-Mart Home Products Add Item Logout Orders About Us Search Products here search Cart

Enter Number of Items to Display: 10 Enter

Here initially the stock of Apple is 160kg let us update the stock

 <p>Apple 1kg Rs.100 Left Stock :160kg Update Stock Delete Item</p>	 <p>Bajra atta 1kg Rs.120 Left Stock :50kg Update Stock Delete Item</p>	 <p>Beetroot 1kg Rs.50 Left Stock :200kg Update Stock Delete Item</p>	 <p>Bitter Gourd 1kg Rs.30 Left Stock :55kg Update Stock Delete Item</p>	 <p>Blackgram 1kg Rs.150 Left Stock :160kg Update Stock Delete Item</p>
				

Activities Firefox Web Browser Nov 6 14:48

EMart Grocery Store + 90%

localhost:8080/IT_Lab/sendCard?name=Apple

E-Mart Home Products Add Item Logout Orders About Us Search Products here search Cart

Update

Enter New Stock

Update

Let us Update Apple Stock to 400kg

Here the Apple Stock is Updated to 400kg

Activities Firefox Web Browser Nov 6 14:48

EMart Grocery Store 90% 

localhost:8080/IT_Lab/ProductServlet

E-Mart Home Products Add Item Logout Orders About Us Search Products here search Cart

Enter Number of Items to Display : 10

 <p>Apple 1kg Rs.100 Left Stock :400kg</p> <p><input type="button" value="Update Stock"/> <input type="button" value="Delete Item"/></p>	 <p>Bajra atta 1kg Rs.120 Left Stock :50kg</p> <p><input type="button" value="Update Stock"/> <input type="button" value="Delete Item"/></p>	 <p>Beetroot 1kg Rs.50 Left Stock :200kg</p> <p><input type="button" value="Update Stock"/> <input type="button" value="Delete Item"/></p>	 <p>Bitter Gourd 1kg Rs.30 Left Stock :55kg</p> <p><input type="button" value="Update Stock"/> <input type="button" value="Delete Item"/></p>	 <p>Blackgram 1kg Rs.150 Left Stock :160kg</p> <p><input type="button" value="Update Stock"/> <input type="button" value="Delete Item"/></p>
				

i. Should also be able to create new items

1. Have images, detailed description etc.

A screenshot of a Firefox browser window titled "EMart Grocery Store". The address bar shows "localhost:8080/IT_Lab/SearchProducts". The main content area displays a search interface. A yellow box highlights the search input field containing "mushroom" and the search button next to it. Below the search bar, a message states "There is No item called mushroom". The browser's activity bar on the left shows other open tabs like "mushroom - Google Search".

Activities Firefox Web Browser Nov 6 14:49

EMart Grocery Store × mushroom - Google Search × +

localhost:8080/IT_Lab/SearchProducts

90% Cart

E-Mart Home Products Add Item Logout Orders About Us

mushroom search

mushroom

Enter Number of Items to Display : 10 Enter

There is No item called mushroom

Let us Add Item Called Mushroom

Activities Firefox Web Browser Nov 6 14:50

EMart Grocery Store mushroom - Google Search + localhost:8080/IT_Lab/additems1.jsp 90% Cart

E-Mart Home Products Add Item Logout Orders About Us Search Products search

Add Item

Name:

Category

Price:

Image :

Stock :

Add

Mushroom Item is added

Activities Firefox Web Browser ▾ Nov 6 14:50 •

EMart Grocery Store × mushroom - Google Search X +

localhost:8080/IT_Lab/SearchProducts 90% ⭐

E-Mart Home Products Add Item Logout Orders About Us mushroom search Cart

Enter Number of Items to Display : 10 Enter


mushroom
1kg
Rs.100
Left Stock :200kg
[Update Stock](#) [Delete Item](#)

Mushroom added

Activities

Firefox Web Browser

Nov 6 16:40

•

EMart Grocery Store

localhost:8080/IT_Lab/ProductServlet?page=3

90%



Maida
1kg
Rs.100
Left Stock :40kg



Maize
1kg
Rs.200
Left Stock :100kg



Maize flour
1kg
Rs.120
Left Stock :40kg



Mango
1kg
Rs.60
Left Stock :100kg



Milk Powder
1kg
Rs.200
Left Stock :45kg

Millet
1kg
Rs.130
Left Stock :80kg

0 - + Add To Cart

Multigrain flour
1kg
Rs.160
Left Stock :30kg

0 - + Add To Cart

mushroom
1kg
Rs.100
Left Stock :200kg

0 - + Add To Cart

Oats
1kg
Rs.300
Left Stock :120kg

0 - + Add To Cart

Onion
1kg
Rs.60
Left Stock :100kg

0 - + Add To Cart



All added Items are stored in table Items in Database

```
Activities Terminal ▾ Nov 6 17:57 • deepika@deepika-VirtualBox: ~


```
Mobile	varchar(20)	NO		NULL	
Address	varchar(100)	NO		NULL	
Area_PIN	bigint	NO		NULL	
+-----+-----+-----+-----+-----+
6 rows in set (0.02 sec)

mysql> desc Items;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
Name	varchar(50)	NO	PRI	NULL	
Category	varchar(50)	NO		NULL	
Price	int	NO		NULL	
Image	blob	NO		NULL	
Stock	int	NO		NULL	
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> desc cart;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
UserName	varchar(50)	NO		NULL	
ItemName	varchar(50)	NO		NULL	
ItemPrice	int	NO		NULL	
ItemQuantity	int	NO		NULL	
TotalPrice	int	NO		NULL	
Category	varchar(20)	NO		NULL	
Image	varchar(500)	NO		NULL	
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> desc orders;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
UserName	varchar(50)	NO		NULL	
ItemName	varchar(50)	NO		NULL	
ItemPrice	int	NO		NULL	
ItemQuantity	int	NO		NULL	
TotalPrice	int	NO		NULL	
Category	varchar(20)	NO		NULL	
Image	varchar(500)	NO		NULL	
Ordered_date	varchar(12)	NO		NULL	
+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)

mysql> []
```


```

There is No Item called Banana in Items Table

```
Activities Terminal Nov 6 18:03 ● deepika@deepika-VirtualBox:~ Q E X

+-----+
| Cucumber | vegetable | 45 | 30 | https://gardenerspath.com/wp-content/uploads/2021/07/Cucumber-Hollow-Heart-Causes-and-Solutions-FB-2.jpg
| Curd     | dairy      | 30 | 100 | https://www.bigbasket.com/media/uploads/p/xxl/40053502_5-godrej-jersey-curd.jpg
| Custard Apple | fruit | 150 | 40 | https://blog-images.pharmeasy.in/2022/06/05115130/23.jpg
| Garlic    | vegetable | 60 | 100 | https://5.imimg.com/data5/SELLER/Default/2020/10/PO/FK/UT/4097467/fresh-garlic-500x500.jpg
| Greengram  | Pulses&cereals | 145 | 100 | https://www.kisanestore.com/image/cache/data/Seeds/AgriBee%20Seeds/Greengram_Green_Gold-500x554.png
| Guava     | fruit      | 35 | 30 | https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRyW8F0v_g8XzuDNbPwCXLvPUO-48yoKG00xkeC1vF-dmvVYUEcbMa2bcAtTqQTyy7b4V0&usqp=CAU
| Horsegram  | Pulses&cereals | 200 | 200 | https://m.media-amazon.com/images/I/91tfo3Srn0L._SX425_.jpg
| Jowar flour | flours    | 125 | 130 | https://5.imimg.com/data5/TB/ED/YB/IOS-25287374/product-jpeg-500x500.png
| Lady's Finger | vegetable | 20 | 100 | https://5.imimg.com/data5/DJ/JU/MY-52183777/fresh-lady-finger-500x500.jpg
| Maize      | Pulses&cereals | 200 | 100 | https://www.jiomart.com/images/product/600x600/rvkeoqv8u/trinatra-best-quality-maize-whole-1kg-pack-of-1-makka-sabut-1000-g-product-images-orvkeoqv8u-p5916800
31-1-202205282141.jpg | 100 |
+-----+
20 rows in set (0.01 sec)

mysql> select * from Customer_Register;
+-----+-----+-----+-----+-----+
| Name   | Email        | Password | Mobile   | Address           | Area_PIN |
+-----+-----+-----+-----+-----+
| Deepika | deepika@gmail.com | Deep@12 | 8328080345 | 5-8-122/9c Shantinagar Sangareddy | 502006 |
| Karthikeya | karthikeya2003@gmail.com | Kar@12 | 9876543211 | Mothinagar          | 502001 |
| Tejas   | tejas@gmail.com | Tej12    | 9440937165 | 5-9-122 , Brundhvan colony , Sangareddy | 502006 |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from Shopkeeper_Register;
+-----+-----+-----+-----+-----+
| Name   | Email        | Password | Mobile   | Address           | Area_PIN |
+-----+-----+-----+-----+-----+
| Manish | manishporsche2003@gmail.com | Manu@12 | 9515209845 | Balnagar , Hyderabad | 502001 |
| Saniya | saniya@gmail.com | san@12  | 6302814770 | 5-8-123/9 Shanthinagar Sangareddy | 502001 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select * from Items where Name = "Banana";
Empty set (0.01 sec)

mysql>
```



Let us add Banana Item

Activities Firefox Web Browser ▾ Nov 6 18:03 •

EMart Grocery Store × Banana - Google Search × +

localhost:8080/IT_Lab/additems1.jsp 90% ⭐

E-Mart Home Products Add Item Logout Orders About Us Search Products search Cart

Add Item

Name:

Category

Price:

Image :

Stock :

Add

Banana Item is added to Items

Activities Terminal Nov 6 18:06 ● deepika@deepika-VirtualBox: ~

Apple	+-----+	fruit	100 https://st1.latestly.com/wp-content/uploads/2021/08/resize-27-3-784x441.jpg
Bajra atta	flours	300	https://www.lotusmarkt.com/wp-content/uploads/2021/11/Adisha-1-kg-Bajra-Flour.jpg
Banana	fruit	50	data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAAD/2wCEAAoGBxQUExYUFBQXFxYXGR8dGRkZGBghGhkqGBkYGRochXkZHyoIGR8nHRgWJDQjJysuMTEhCE20zYw0iowMS4BCwsLDw4PHRERHTUnIigwMDIuMDIwMDIwMjAyMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMP/AABEIAGBLAMBIgACEQDEQH/xAAbAAADAAMBAQAAAAAAEAEQYAAwcCAF/EAEUQAECAwUFBgMGBQIFBAMAAECAwAEEQUISITFBBlFhcYETIjkRobHB0fAHQlJikuEUIzNygrLxFUNTC6IWY8LSJC0/8QAGgEAAgMBAQAAAAAAAgMBBAUABv/EADERAAIBAwMCawcDBQEAAAAAAECAMRIQQSMUFREyJhMnGBkbHR8C0h8QuZsHhFP/aAwDAQACEQMRA8Ao03ChvjzYcog9o5TvKN08gK+6VQosdp9aQ660zBFQg4q67vflDoxH7rhQoEdocDpeA/8aivUCPFLCGK3z6TSawItF1pydF0W0B3HQxuse@b6ezc80wM07akLybwzGcsk/LkG+nMzgajfzEcufi3whQydldNddAjdm/PWCZadc0gHPQxotBmn8waeLlv6e3KOXnaZIE9TkpeFU4KGXHgYeWSouSad90jHelRHTKE0m9UUh9Yn9BQ4q8yfmYfibbt0Mm1syetJoKbWj08kgccIX7NWo/LsLT2TlSioBQrxZZEcj0i0lpJKBTWlVK1whfaTuNBgn31rDERhV2Wvm85hfis1g2M/Mq7Z8dm0D3UqrfrWQc7pyHE+RzijWZdKqUCLDCpxpwrknLCG2pxSAM4m8tSqJFaV3mvCDbE2dde77iyBgCEGiajSpHez3CLFX9Qb200dAICjbidiDbQTTEK3igHHABBVXQ8BnrhwMT8ztEzViLANc6oSnnCv8AaaGm6KzamQZTdyQTeSo+rE6lWI/yPmN0Tc/Y6ErWFd66a00wz9MYsaY0woBvFMx3YnQbPs9hLA7JFAcaklRxxzUTv0wgSfcBqKA6Qss+0FdIqYhCQKa0Aw54e0KpfadDky033yt1Ca5ABS0gnjgYzxpx6tRyRm3WPDKBLt5N1N0YBICRyaHiatZzxdB5mkVFpp0DtjEhayse8VfAwukLVEJE+qduoJ3CHmzbHzyinVeJ2qunSB5Cv+UTS2y6pDKC3FBPIanoKnfplboSlpLSRQCgA3B0UNqAKlu/0kcmT02u1FE7jGnWeASABjuHygfaJ+iEtPbk1qASAKk8ABmdOs07Bjs=shx2heIwGYb+auPlvPbAKW5usk82jkUZ7JIKh3yMvw/vAM7M0rvjZ0zdM8zCG0ZWAfSjCEQsZPE8zL+7M5R9mjTzvEYU50/aEzc4VkvHoN0N5V0KFiuPT2AXEC88bGTgu+pJOI9RoYs328KRztMuZWdaeT/TWu4vcL5oDw7120lTI7oMK1iC4deCP5kITwZMTE5/CvoeJ0oShD24Anur/wAsa8rUOfpy4WkjemePhCw3pUOnrQclD3gXYG3e2ZLDh/nMdwi1zWkyIVxwFDyrrEbS9He0Vwf0d0MMmze+L7Wlb7a0HUU5H/f2iEsx91LyVI8TzrTdQ0I4ai0m24yLx3KxiYsSzAp9wUwW4K0zpQE+pVgho64Wk1/zpF1UuR0h7M2l/EN36goP6kq+8hQ3jDHjdWaaCRhCqy2SgXUID



Activities Firefox Web Browser ▾

EMart Grocery Store X Banana - Google Search X +

localhost:8080/IT_Lab/ProductServlet 90% ⭐

① E-Mart Home Products Add Item Logout Orders About Us Search Products here search Cart

Enter Number of Items to Display : 10 Enter

Banana Item is added

Apple 1kg Rs.100 Left Stock :300kg Update Stock Delete Item	Bajra atta 1kg Rs.120 Left Stock :50kg Update Stock Delete Item	Banana 1kg Rs.30 Left Stock :100kg Update Stock Delete Item	Beetroot 1kg Rs.50 Left Stock :200kg Update Stock Delete Item	Bitter Gourd 1kg Rs.30 Left Stock :55kg Update Stock Delete Item
SIDDHI 88 RESEARCH BLACK GRAM	Green Beans	Eggplants	Carrots	Amul CHOCO

ii. Take care of the stock across buyers' purchases

Activities Firefox Web Browser • Nov 6 16:23

EMart Grocery Store localhost:8080/IT_Lab/ProductServlet 90%

E-Mart Home Products Logout About Us Search Products here search Cart

Enter Number of Items to Display : 10 Enter

Logged in as Buyer and added Apple 100kg and Bajra atta 20kg to cart

 Apple 1kg Rs.100 Left Stock :400kg <input type="text" value="100"/> - + Add To Cart	 Bajra atta 1kg Rs.120 Left Stock :50kg <input type="text" value="20"/> - + Add To Cart	 Beetroot 1kg Rs.50 Left Stock :200kg <input type="text" value="0"/> - + Add To Cart	 Bitter Gourd 1kg Rs.30 Left Stock :55kg <input type="text" value="0"/> - + Add To Cart	 Blackgram 1kg Rs.150 Left Stock :160kg <input type="text" value="0"/> - + Add To Cart
				

When the user clicks on cart , Items that are added to cart are viewed

Activities Firefox Web Browser Nov 6 16:23

EMart Grocery Store + 90%

localhost:8080/IT_Lab/cartDisplay

E-Mart Home Products Logout Orders About Us Search Products here search Cart

Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Delete
	Apple	fruit	100	100	Rs.10000	<button>Delete</button>
	Bajra	flours	120	20	Rs.2400	<button>Delete</button>

Total Quantity of all Items :
120

Total Price of all Items :
12400

Checkout

localhost:8080/IT_Lab/cartDisplay

If a buyer wants to delete Item from Cart he must click on Delete

Activities Firefox Web Browser ▾ Nov 6 16:23

EMart Grocery Store + 90% ⌂ ⌃ ⌁

localhost:8080/IT_Lab/cartDisplay

E-Mart Home Products Logout Orders About Us Search Products here search Cart

Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Delete
	Apple	fruit	100	100	Rs.10000	<button>Delete</button>
	Bajra	flours	120	20	Rs.2400	<button>Delete</button>

Total Quantity of all Items :
120

Total Price of all Items :
12400

Checkout

Activities Firefox Web Browser ▾ Nov 6 16:23

E-Mart Grocery Store + 90% ⚡ localhost:8080/IT_Lab/cartDisplay

E-Mart Home Products Logout About Us Search Products here search Cart

Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Delete
	Apple	fruit	100	100	Rs.10000	<button>Delete</button>

Total Quantity of all Items :
100

Total Price of all Items :
10000

Checkout

Bajra is deleted from cart
Now , To order the cart Items , Buyer must click on Checkout button

When the Buyer clicks on checkout the order is placed and all cart items are added to orders table and cart items are then deleted.

The screenshot shows a Firefox browser window titled "EMart Grocery Store" with the URL "localhost:8080/IT_Lab/BuyNoworders". The browser's activity bar on the left lists various desktop applications. The main content area displays an "Orders" page for the E-Mart grocery store. The page features a table with columns: Image, ItemName, Category, ItemPrice, Quantity, TotalPrice, and Ordered Date. A single row is shown for an order of 100kg of apples. Below the table, the total quantity and total price are summarized as "Total Quantity : 100" and "Total Price : 10000". A message at the bottom states: "Since , 100kg Apples the ordered , the Stock of Apples in Items Table must be reduced by 100".

Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Ordered Date
	Apple	Fruit	100	100	Rs.10000	2022-11-06

Total Quantity : 100

Total Price : 10000

Since , 100kg Apples the ordered , the Stock of Apples in Items Table must be reduced by 100

Apples stock is decreased to 300kg from 400kg as 100kg was ordered by customers

Activities Firefox Web Browser Nov 6 16:24

EMart Grocery Store localhost:8080/IT_Lab/ProductServlet 90% Cart

E-Mart Home Products Logout About Us Search Products here search

Enter Number of Items to Display : 10 Enter



Apple
1kg
Rs.100
Left Stock :300kg

0 - + Add To Cart



Bajra atta
1kg
Rs.120
Left Stock :50kg

0 - + Add To Cart



Beetroot
1kg
Rs.50
Left Stock :200kg

0 - + Add To Cart



Bitter Gourd
1kg
Rs.30
Left Stock :55kg

0 - + Add To Cart



Blackgram
1kg
Rs.150
Left Stock :160kg

0 - + Add To Cart



Carrots



Cabbage



Carrots



Amul Pure Milk Cheddar Cheese



iii. Have relevant database tables

Activities Firefox Web Browser Nov 6 16:27

EMart Grocery Store + 90% ⚡ 90% 🔍

localhost:8080/IT_Lab/Customer_Login.jsp

E-Mart Home Products User Login User Register Orders About Us Search Products here search Cart

Customer Login

Email: tejas@gmail.com

Password:

Login

New User Register

Log in as tejas@gmail.com

The screenshot displays a customer login interface for an e-commerce platform named "EMart". The page is titled "Customer Login". It features two input fields: "Email" containing "tejas@gmail.com" and "Password" containing "....". A green "Login" button is positioned below the password field. At the bottom of the form, there are links for "New User Register" and "Log in as tejas@gmail.com". The browser's address bar shows the URL "localhost:8080/IT_Lab/Customer_Login.jsp". The top navigation bar includes links for Home, Products, User Login, User Register, Orders, About Us, a search bar, and a Cart icon. The left sidebar shows various application icons.

When he clicks on orders he gets the Items that he has ordered along with ordered_date

Activities Firefox Web Browser Nov 6 16:32

EMart Grocery Store localhost:8080/IT_Lab/BuyNoworders 90%

E-Mart Home Products Logout Orders About Us Search Products here search Cart

Orders

Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Ordered Date
	Barley	Pulses&cereals	120	1	Rs.120	2022-11-05
	Brinjal	vegetable	35	1	Rs.35	2022-11-05
	Butter	dairy	300	1	Rs.300	2022-11-05

Total Quantity : 3 Total Price : 455

The orders are stored in orders table in database

```
Activities Terminal Nov 6 16:33 ●
deepika@deepika-VirtualBox: ~
mysql> delete from orders where UserName ="tejas@gmail.com" and ItemName="Bajra";
delete from orders where UserName ="tejas@gmail.com" and ItemName="Bajra";
-> ^C^C

^C
mysql> delete from orders where UserName ="tejas@gmail.com" and ItemName="Bajra";
Query OK, 1 row affected (0.01 sec)

mysql> select * from orders;
+-----+-----+-----+-----+-----+-----+
| UserName | ItemName | ItemPrice | ItemQuantity | TotalPrice | Category | Image
+-----+-----+-----+-----+-----+-----+
| red_date |
+-----+-----+-----+-----+-----+-----+
| tejas@gmail.com | Barley | 120 | 1 | 120 | Pulses&cereals | https://m.media-amazon.com/images/I/71hW9p0HSfL._SL1500_.jpg | 2022
-11-05 |
| tejas@gmail.com | Brinjal | 35 | 1 | 35 | vegetable | https://cdn.shopify.com/s/files/1/0522/4149/8278/products/roundbrinjal_600x.jpg?v=1655523147 | 2022
-11-05 |
| tejas@gmail.com | Butter | 300 | 1 | 300 | dairy | https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRBzlnBqTGjBh0-Ll8xeP8PoWaem9q4i-mMfA&usqp=CAU | 2022
-11-05 |
| karthikeya2003@gmail.com | Apple | 100 | 100 | 10000 | fruit | https://st1.latestly.com/wp-content/uploads/2021/08/resize-27-3-784x441.jpg | 2022
-11-06 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from orders;
+-----+-----+-----+-----+-----+-----+
| UserName | ItemName | ItemPrice | ItemQuantity | TotalPrice | Category | Image
+-----+-----+-----+-----+-----+-----+
| red_date |
+-----+-----+-----+-----+-----+-----+
| tejas@gmail.com | Barley | 120 | 1 | 120 | Pulses&cereals | https://m.media-amazon.com/images/I/71hW9p0HSfL._SL1500_.jpg | 2022
-11-05 |
| tejas@gmail.com | Brinjal | 35 | 1 | 35 | vegetable | https://cdn.shopify.com/s/files/1/0522/4149/8278/products/roundbrinjal_600x.jpg?v=1655523147 | 2022
-11-05 |
| tejas@gmail.com | Butter | 300 | 1 | 300 | dairy | https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRBzlnBqTGjBh0-Ll8xeP8PoWaem9q4i-mMfA&usqp=CAU | 2022
-11-05 |
| karthikeya2003@gmail.com | Apple | 100 | 100 | 10000 | fruit | https://st1.latestly.com/wp-content/uploads/2021/08/resize-27-3-784x441.jpg | 2022
-11-06 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

He selects 2kg of Cabbage and addtocart

Activities Firefox Web Browser ▾ Nov 6 16:34 •

EMart Grocery Store + 90% ⌂ ⌃ ⌚

localhost:8080/IT_Lab/ProductServlet



Apple
1kg
Rs.100
Left Stock :300kg

0 - + Add To Cart



Bajra atta
1kg
Rs.120
Left Stock :50kg

0 - + Add To Cart



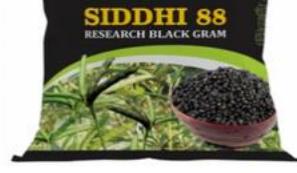
Beetroot
1kg
Rs.50
Left Stock :200kg

0 - + Add To Cart



Bitter Gourd
1kg
Rs.30
Left Stock :55kg

0 - + Add To Cart



Blackgram
1kg
Rs.150
Left Stock :160kg

0 - + Add To Cart



Bottle gourd
1kg
Rs.40
Left Stock :50kg

0 - + Add To Cart



Brinjal
1kg
Rs.35
Left Stock :60kg

0 - + Add To Cart



Cabbage
1kg
Rs.25
Left Stock :100kg

2 - + Add To Cart



Carrot
1kg
Rs.40
Left Stock :60kg

0 - + Add To Cart



Cheese
1kg
Rs.300
Left Stock :50kg

0 - + Add To Cart

1 2 3 4 5

Next

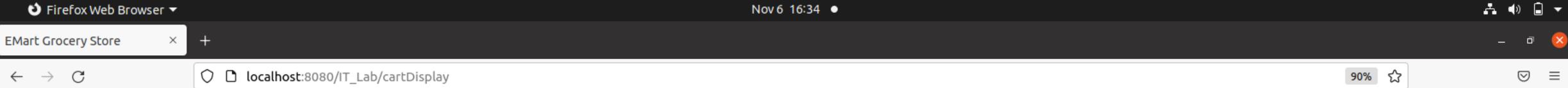


Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Delete
	Cabbage	vegetable	25	2	Rs.50	<button>Delete</button>

Total Quantity of all Items : 2

Total Price of all Items : 50

Checkout

Cabbage added to cart

All the cart Items are added to cart table in database

```
Activities Terminal Nov 6 16:34 • deepika@deepika-VirtualBox: ~
+-----+
4 rows in set (0.00 sec)

mysql> select * from orders;
+-----+-----+-----+-----+-----+-----+-----+-----+
| UserName | ItemName | ItemPrice | ItemQuantity | TotalPrice | Category | Image
+-----+-----+-----+-----+-----+-----+-----+
| red_date |          |          |          |          |          |          |
+-----+-----+-----+-----+-----+-----+-----+
| tejas@gmail.com | Barley | 120 | 1 | 120 | Pulses&cereals | https://m.media-amazon.com/images/I/71hW9p0HSfL._SL1500_.jpg | 2022
| -11-05 |          |          |          |          |          |          |
| tejas@gmail.com | Brinjal | 35 | 1 | 35 | vegetable | https://cdn.shopify.com/s/files/1/0522/4149/8278/products/roundbrinjal_600x.jpg?v=1655523147 | 2022
| -11-05 |          |          |          |          |          |          |
| tejas@gmail.com | Butter | 300 | 1 | 300 | dairy | https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRBzlnBqTQjBh0-Ll8xeP8PoWaem9q4i-mMfA&usqp=CAU | 2022
| -11-05 |          |          |          |          |          |          |
| karthikeya2003@gmail.com | Apple | 100 | 100 | 10000 | fruit | https://st1.latestly.com/wp-content/uploads/2021/08/resize-27-3-784x441.jpg | 2022
| -11-06 |          |          |          |          |          |          |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from cart;
Empty set (0.00 sec)

mysql> desc cart;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| UserName | varchar(50) | NO | | NULL |
| ItemName | varchar(50) | NO | | NULL |
| ItemPrice | int | NO | | NULL |
| ItemQuantity | int | NO | | NULL |
| TotalPrice | int | NO | | NULL |
| Category | varchar(20) | NO | | NULL |
| Image | varchar(500) | NO | | NULL |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> select * from cart;
+-----+-----+-----+-----+-----+-----+-----+
| UserName | ItemName | ItemPrice | ItemQuantity | TotalPrice | Category | Image
+-----+-----+-----+-----+-----+-----+-----+
| tejas@gmail.com | Cabbage | 25 | 2 | 50 | vegetable | https://foodrevolution.org/wp-content/uploads/iStock-933853364.jpg |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```





Activities Firefox Web Browser ▾ Nov 6 16:34 •

EMart Grocery Store + 90% ⌂ ⌊ ⌋ ⌓

localhost:8080/IT_Lab/cartDisplay

E-Mart Home Products Logout Orders About Us Search Products here search Cart

Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Delete
	Cabbage	vegetable	25	2	Rs.50	<button>Delete</button>

Total Quantity of all Items : 2 Total Price of all Items : 50 Checkout

Click on checkout to order the Items

Cabbage Item added to orders

Activities Firefox Web Browser Nov 6 16:35

EMart Grocery Store 90%

localhost:8080/IT_Lab/BuyNoworders

Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Ordered Date
	Barley	Pulses&cereals	120	1	Rs.120	2022-11-05
	Brinjal	vegetable	35	1	Rs.35	2022-11-05
	Butter	dairy	300	1	Rs.300	2022-11-05
	Cabbage	vegetable	25	2	Rs.50	2022-11-06

Total Quantity : 5 Total Price : 505

d. Buyer should have provision to search for an item (2 points)

Activities Firefox Web Browser Nov 6 16:35

EMart Grocery Store localhost:8080/IT_Lab/ProductServlet

80% Cart

E-Mart Home Products Logout Orders About Us

Search Products here search

Enter Number of Items to Display : 10 Enter

i. Have 10 items per page by default



Apple
1kg
Rs.100
Left Stock :300kg

0 Add To Cart



Bajra atta
1kg
Rs.120
Left Stock :50kg

0 Add To Cart



Beetroot
1kg
Rs.50
Left Stock :200kg

0 Add To Cart



Bitter Gourd
1kg
Rs.30
Left Stock :55kg

0 Add To Cart



Blackgram
1kg
Rs.150
Left Stock :160kg

0 Add To Cart



Bottle gourd
1kg



Brinjal
1kg



Cabbage
1kg



Carrot
1kg



Cheese
1kg

A blue arrow points from the 'Enter Number of Items to Display' input field to the text 'i. Have 10 items per page by default'. A blue double-headed arrow points between the search bar and the cart icon.



E-Mart

Home Products Logout Orders About Us

Search Products here

Cart

Enter Number of Items to Display :

Apple
1kg
Rs.100
Left Stock :300kg

- + Add To Cart

Bajra atta
1kg
Rs.120
Left Stock :50kg

- + Add To Cart

Beetroot
1kg
Rs.50
Left Stock :200kg

- + Add To Cart

Bitter Gourd
1kg
Rs.30
Left Stock :55kg

- + Add To Cart

Blackgram
1kg
Rs.150
Left Stock :160kg

- + Add To Cart

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#)

Next

1. User should be able to choose a number for this. Ex. 5, 10, 20 etc.



E-Mart

Home

Products

Logout

Orders

About Us

Search Products here

search

Cart

Enter Number of Items to Display :

3 Items per page



Apple

1kg

Rs.100

Left Stock :300kg

Bajra atta

1kg

Rs.120

Left Stock :50kg

Beetroot

1kg

Rs.50

Left Stock :200kg

Next

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#)



Activities Firefox Web Browser ▾

EMart Grocery Store × +

localhost:8080/IT_Lab/SearchProducts

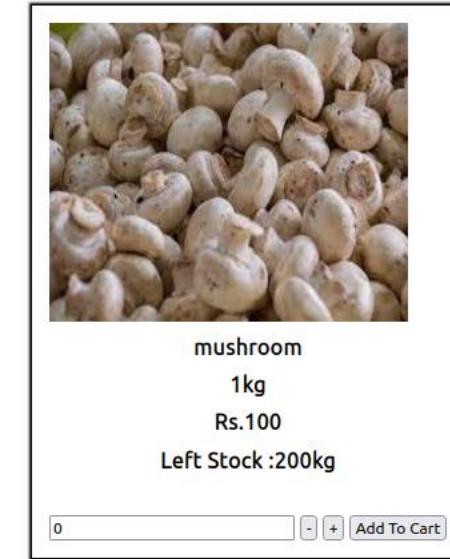
Nov 6 16:36 •

E-Mart Home Products Logout Orders About Us Cart

mushroom search

Enter Number of Items to Display : 10 Enter

The screenshot shows a Firefox browser window titled "EMart Grocery Store" with the URL "localhost:8080/IT_Lab/SearchProducts". The page displays a search bar with the word "mushroom" and a "search" button, both highlighted with a red box. Below the search bar is a text input field showing "10" and an "Enter" button. A navigation menu at the top includes links for Home, Products, Logout, Orders, and About Us, along with a "Cart" link. On the left, there's a sidebar with a "Search" section and a "Left Stock :200kg" message. The main content area shows a large image of mushrooms with the following details:
mushroom
1kg
Rs.100
Left Stock :200kg



d. Buyer should have provision to search for an item (2 points)

Let us search for Cabbage

Activities Firefox Web Browser ▾

EMart Grocery Store + Nov 6 16:42

localhost:8080/IT_Lab/ProductServlet 90% ⭐

E-Mart Home Products Add Item Logout Orders About Us Search Products here search Cart

Enter Number of Items to Display : 10 Enter


Apple
1kg
Rs.100
Left Stock :300kg
[Update Stock](#) [Delete Item](#)


Bajra atta
1kg
Rs.120
Left Stock :50kg
[Update Stock](#) [Delete Item](#)


Beetroot
1kg
Rs.50
Left Stock :200kg
[Update Stock](#) [Delete Item](#)


Bitter Gourd
1kg
Rs.30
Left Stock :55kg
[Update Stock](#) [Delete Item](#)


Blackgram
1kg
Rs.150
Left Stock :160kg
[Update Stock](#) [Delete Item](#)


localhost:8080/IT_Lab/BuyNoworders





 A blue circular arrow points from the Cabbage image to the Carrots image.





Activities Firefox Web Browser ▾ Nov 6 16:41 •

EMart Grocery Store × + localhost:8080/IT_Lab/SearchProducts 90% ☆

E-Mart Home Products Logout About Us Cabbage search Cart

Enter Number of Items to Display : 10 Enter

Cabbage
1kg
Rs.25
Left Stock :98kg
0 - + Add To Cart

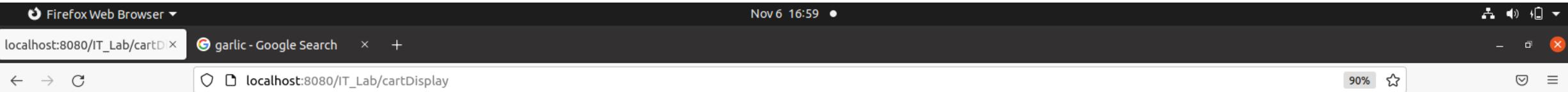
d. Buyer should have provision to search for an item (2 points)

e. Buyer can purchase the items he needs (2 points)

- i. Have a shopping cart properly implemented across multiple requests
- ii. During checkout, commit the transactions to the database
- iii. Display the items purchased and the total cost

f. Maintain all the transactions across users in the database (1 point)

- i. Take care of synchronization during commits and avoid race conditions. (1 point)



You must definitely log in as buyer to access the cart

Please Login as Buyer

e) i. Have a shopping cart properly implemented across multiple requests

Activities Firefox Web Browser Nov 6 19:54

EMart Grocery Store (1) WhatsApp localhost:8080/IT_Lab/cartDisplay 90% Cart

E-Mart Home Products Logout Orders About Us Search Products here search

Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Delete
	Blackgram	Pulses&cereals	150	2	Rs.300	<button>Delete</button>
	Bottle	vegetable	40	2	Rs.80	<button>Delete</button>
	Brinjal	vegetable	35	2	Rs.70	<button>Delete</button>

Total Quantity of all Items : 6 Total Price of all Items : 450 Checkout

This cart is of username : deepika@gmail.com

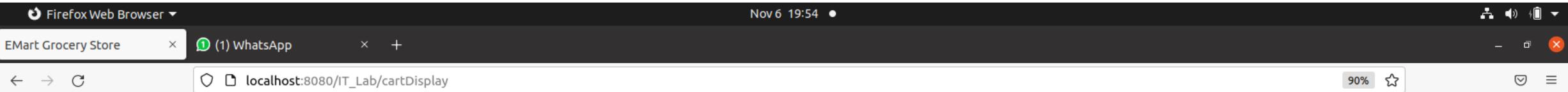


Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Delete
	Apple	fruit	100	2	Rs.200	<button>Delete</button>
	Bajra	flours	120	2	Rs.240	<button>Delete</button>
	Beetroot	vegetable	50	2	Rs.100	<button>Delete</button>

Total Quantity of all Items : 6

Total Price of all Items : 540

Checkout

This cart is of username : tejas@gmail.com

Hence cart properly implemented across multiple requests

```
Activities Terminal Nov 6 19:55 ●
deepika@deepika-VirtualBox:~ Q E X

+-----+
10 rows in set (0.00 sec)

mysql> select * from Customer_Register;
+-----+-----+-----+-----+-----+
| Name | Email | Password | Mobile | Address | Area_PIN |
+-----+-----+-----+-----+-----+
| Deepika | deepika@gmail.com | Deep@12 | 8328080345 | 5-8-122/9c Shantinagar Sangareddy | 502006 |
| Karthikeya | karthikeya2003@gmail.com | Kar@12 | 9876543211 | Mothinagar | 502001 |
| Tejas | tejas@gmail.com | Tej12 | 9440937165 | 5-9-122 , Brundhvan colony , Sangareddy | 502006 |
+-----+-----+-----+-----+-----+
3 rows in set (0.08 sec)

mysql> select * from Shopkeeper_Register;
+-----+-----+-----+-----+-----+
| Name | Email | Password | Mobile | Address | Area_PIN |
+-----+-----+-----+-----+-----+
| Manish | manishporsche2003@gmail.com | Manu@12 | 9515209845 | Balnagar , Hyderabad | 502001 |
| Saniya | saniya@gmail.com | san@12 | 6302814770 | 5-8-123/9 Shanthinagar Sangareddy | 502001 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select * from cart;
+-----+-----+-----+-----+-----+-----+
| UserName | ItemName | ItemPrice | ItemQuantity | TotalPrice | Category | Image
+-----+-----+-----+-----+-----+-----+
| tejas@gmail.com | Apple | 100 | 2 | 200 | fruit | https://st1.latestly.com/wp-content/uploads/2021/08/resize-27-3-784x441.jpg
| tejas@gmail.com | Bajra | 120 | 2 | 240 | flours | https://www.lotusmarkt.com/wp-content/uploads/2021/11/Adisha-1-kg-Bajra-Flour.jpg
| tejas@gmail.com | Beetroot | 50 | 2 | 100 | vegetable | https://cdn.getthegloss.com/convert/files/2022/03/29ec13e0-9cd4-11ec-af5d-9d314eed0cf6-beetroot-.jpg/r%5Bwidth%5D=1920/29ec13e0-9cd4-11ec-af5d-9d314eed0cf6-beetroot-.jpg
| deepika@gmail.com | Blackgram | 150 | 2 | 300 | Pulses&cereals | https://www.kisanestore.com/image/cache/data/Seeds/AgriBee%20Seeds/Blackgram_Siddhi_88-500x554.png
| deepika@gmail.com | Bottle | 40 | 2 | 80 | vegetable | https://doorkisan.com/wp-content/uploads/2016/05/DoorKisan-Bottle-Gourd.jpg
| deepika@gmail.com | Brinjal | 35 | 2 | 70 | vegetable | https://cdn.shopify.com/s/files/1/0522/4149/8278/products/roundbrinjal_600x.jpg?v=1655523147
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql>
```

When we click on orders after logging in as Customer , it displays the orders of that username

Activities Firefox Web Browser • Nov 6 17:36 •

EMart Grocery Store × garlic - Google Search × + 90% ☆

E-Mart Home Products Add Item Logout Orders About Us Search Products here search Cart

Orders between Dates dd / mm / yyyy and dd / mm / yyyy Enter

Enter UserName to get his purchases :

Orders

Image	ItemName	UserName	Category	ItemPrice	Quantity	TotalPrice	Ordered Date
	Barley	tejas@gmail.com	Pulses&cereals	120	1	Rs.120	2022-11-05
	Brinjal	tejas@gmail.com	vegetable	35	1	Rs.35	2022-11-05
	Butter	tejas@gmail.com	dairy	300	1	Rs.300	2022-11-05

Total Quantity : 3 Total Price : 455

During checkout, commit the transactions to the database

Activities Firefox Web Browser ▾ Nov 6 17:11 ●

EMart Grocery Store × garlic - Google Search × +

localhost:8080/IT_Lab/Customer_Login.jsp 90% ☆

E-Mart Home Products User Login User Register Orders About Us Search Products here search Cart

Customer Login

Email:

Password:

[Login](#)

New User [Register](#)

Logged in as deepika@gmail.com

Added 10kg of cucumber and 10kg of curd to cart



Activities Firefox Web Browser ▾

EMart Grocery Store garlic - Google Search Nov 6 17:11 • 90% Cart

localhost:8080/IT_Lab/ProductServlet?page=2

E-Mart Home Products Logout About Us Search Products here search

Enter Number of Items to Display : 10 Enter

<p>Cucumber 1kg Rs.30 Left Stock :40kg</p> <p><input type="text" value="10"/> - + Add To Cart</p>	<p>Curd 1kg Rs.100 Left Stock :150kg</p> <p><input type="text" value="10"/> - + Add To Cart</p>	<p>Custard Apple 1kg Rs.40 Left Stock :60kg</p> <p><input type="text" value="0"/> - + Add To Cart</p>	<p>Garlic 1kg Rs.30 Left Stock :100kg</p> <p><input type="text" value="0"/> - + Add To Cart</p>	<p>Ghee 1kg Rs.120 Left Stock :40kg</p> <p><input type="text" value="0"/> - + Add To Cart</p>



Activities Firefox Web Browser ▾ Nov 6 17:11 •

EMart Grocery Store × garlic - Google Search × + 90% ⌂ ⌊ ⌋ ⌈ ⌁ ⌃ ⌄

localhost:8080/IT_Lab/cartDisplay

E-Mart Home Products Logout Orders About Us Search Products here search Cart

Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Delete
	Cucumber	vegetable	30	10	Rs.300	<button>Delete</button>
	Curd	dairy	100	10	Rs.1000	<button>Delete</button>

Total Quantity of all Items :
20

Total Price of all Items :
1300

Checkout

Added to cart : Items in cart

Activities Terminal ▾ Nov 6 17:12 •

deepika@deepika-VirtualBox: ~

```
+-----+-----+-----+-----+-----+-----+
| UserName | ItemName | ItemPrice | ItemQuantity | TotalPrice | Category | Image
+-----+-----+-----+-----+-----+-----+
| tejas@gmail.com | Cabbage | 25 | 2 | 50 | vegetable | https://foodrevolution.org/wp-content/uploads/iStock-933853364.jpg |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from orders;
+-----+-----+-----+-----+-----+-----+-----+
| UserName | ItemName | ItemPrice | ItemQuantity | TotalPrice | Category | Image
| red_date |
+-----+-----+-----+-----+-----+-----+
-----+
| tejas@gmail.com | Barley | 120 | 1 | 120 | Pulses&cereals | https://m.media-amazon.com/images/I/71hW9pOHsFL._SL1500_.jpg | 2022
-11-05 |
| tejas@gmail.com | Brinjal | 35 | 1 | 35 | vegetable | https://cdn.shopify.com/s/files/1/0522/4149/8278/products/roundbrinjal_600x.jpg?v=1655523147 | 2022
-11-05 |
| tejas@gmail.com | Butter | 300 | 1 | 300 | dairy | https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRBzlnBqTGjBh0-Ll8xeP8PoWaem9q4i-mMFA&usqp=CAU | 2022
-11-05 |
| karthikeya2003@gmail.com | Apple | 100 | 100 | 10000 | fruit | https://st1.latestly.com/wp-content/uploads/2021/08/resize-27-3-784x441.jpg | 2022
-11-06 |
| tejas@gmail.com | Cabbage | 25 | 2 | 50 | vegetable | https://foodrevolution.org/wp-content/uploads/iStock-933853364.jpg | 2022
-11-06 |
+-----+-----+-----+-----+-----+-----+
-----+
5 rows in set (0.00 sec)
```

```
mysql> select * from Customer_Register;
+-----+-----+-----+-----+-----+
| Name | Email | Password | Mobile | Address | Area_PIN |
+-----+-----+-----+-----+-----+
| Deepika | deepika@gmail.com | Deep@12 | 8328080345 | 5-8-122/9c Shantinagar Sangareddy | 502006 |
| Karthikeya | karthikeya2003@gmail.com | Kar@12 | 9876543211 | Mothinagar | 502001 |
| Tejas | tejas@gmail.com | Tej12 | 9440937165 | 5-9-122 , Brundhvan colony , Sangareddy | 502006 |
+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

Items in cart table

```
mysql> select * from cart;
+-----+-----+-----+-----+-----+-----+
| UserName | ItemName | ItemPrice | ItemQuantity | TotalPrice | Category | Image
+-----+-----+-----+-----+-----+-----+
| deepika@gmail.com | Cucumber | 30 | 10 | 300 | vegetable | https://gardenerspath.com/wp-content/uploads/2021/07/Cucumber-Hollow-Heart-Causes-and-Solutions-FB-2.jpg |
| deepika@gmail.com | Curd | 100 | 10 | 1000 | dairy | https://www.bigbasket.com/media/uploads/p/xxl/40053502_5-godrej-jersey-curd.jpg |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```

```
mysql> 
```



Activities Firefox Web Browser ▾ Nov 6 17:11 •

EMart Grocery Store × garlic - Google Search × + 90% ⌂ ⌊ ⌋ ⌈ ⌁ ⌃ ⌄

localhost:8080/IT_Lab/cartDisplay

E-Mart Home Products Logout Orders About Us Search Products here search Cart

Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Delete
	Cucumber	vegetable	30	10	Rs.300	<button>Delete</button>
	Curd	dairy	100	10	Rs.1000	<button>Delete</button>

Total Quantity of all Items :
20

Total Price of all Items :
1300

Checkout

Deleting Curd from cart

Activities Terminal ▾ Nov 6 17:12 •

deepika@deepika-VirtualBox: ~

UserName	ItemName	ItemPrice	ItemQuantity	TotalPrice	Category	Image	OrderID
red_date -11-05	Barley	120	1	120	Pulses&cereals	https://m.media-amazon.com/images/I/71hW9p0HSfL._SL1500_.jpg	2022
tejas@gmail.com -11-05	Brinjal	35	1	35	vegetable	https://cdn.shopify.com/s/files/1/0522/4149/8278/products/roundbrinjal_600x.jpg?v=1655523147	2022
tejas@gmail.com -11-05	Butter	300	1	300	dairy	https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRBzlnBqTGjBh0-Ll8xeP8PoWaem9q4i-mMfA&usqp=CAU	2022
karthikeya2003@gmail.com -11-06	Apple	100	100	10000	fruit	https://st1.latestly.com/wp-content/uploads/2021/08/resize-27-3-784x441.jpg	2022
tejas@gmail.com -11-06	Cabbage	25	2	50	vegetable	https://foodrevolution.org/wp-content/uploads/iStock-933853364.jpg	2022

5 rows in set (0.00 sec)

mysql> select * from Customer_Register;

Name	Email	Password	Mobile	Address	Area_PIN
Deepika	deepika@gmail.com	Deep@12	8328080345	5-8-122/9c Shantinagar Sangareddy	502006
Karthikeya	kartikeya2003@gmail.com	Kar@12	9876543211	Mothinagar	502001
Tejas	tejas@gmail.com	Tej12	9440937165	5-9-122 , Brundhvan colony , Sangareddy	502006

3 rows in set (0.01 sec)

mysql> select * from cart;

UserName	ItemName	ItemPrice	ItemQuantity	TotalPrice	Category	Image
deepika@gmail.com	Cucumber	30	10	300	vegetable	https://gardenerspath.com/wp-content/uploads/2021/07/Cucumber-Hollow-Heart-Causes-and-Solutions-FB-2.jpg
deepika@gmail.com	Curd	100	10	1000	dairy	https://www.bigbasket.com/media/uploads/p/xxl/40053502_5-godrej-jersey-curd.jpg

2 rows in set (0.01 sec)

mysql> select * from cart;

Items in cart table

UserName	ItemName	ItemPrice	ItemQuantity	TotalPrice	Category	Image
deepika@gmail.com	Cucumber	30	10	300	vegetable	https://gardenerspath.com/wp-content/uploads/2021/07/Cucumber-Hollow-Heart-Causes-and-Solutions-FB-2.jpg

1 row in set (0.00 sec)

mysql> []



Activities Firefox Web Browser ▾ Nov 6 17:12 •

EMart Grocery Store × garlic - Google Search × + 90% ⌂ ⌊ ⌋

localhost:8080/IT_Lab/cartDisplay

E-Mart Home Products Logout Orders About Us Search Products here search Cart

Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Delete
	Cucumber	vegetable	30	10	Rs.300	<button>Delete</button>

Total Quantity of all Items :
10

Total Price of all Items :
300

Checkout

Deleted curd from cart and checkout the items in cart

iii. Display the items purchased and the total cost

Activities Firefox Web Browser ▾ Nov 6 17:12 •

EMart Grocery Store × garlic - Google Search × + 90% ⚡

localhost:8080/IT_Lab/BuyNoworders

E-Mart Home Products Logout Orders About Us Search Products here search Cart

Orders

Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Ordered Date
	Cucumber	vegetable	30	10	Rs.300	2022-11-06

Total Quantity : 10 Total Price : 300

Items added to orders

Ordered items of a particular user in orders table

Activities Terminal ▾ Nov 6 17:52 •

deepika@deepika-VirtualBox: ~

```
+-----+-----+-----+-----+-----+
| Deepika | deepika@gmail.com | Deep@12 | 8328080345 | 5-8-122/9c Shantinagar Sangareddy | 502006 |
| Karthikeya | karthikeya2003@gmail.com | Kar@12 | 9876543211 | Mothinagar | 502001 |
| Tejas | tejas@gmail.com | Tej12 | 9440937165 | 5-9-122 , Brundhvan colony , Sangareddy | 502006 |
+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

```
mysql> select * from cart;
```

```
+-----+-----+-----+-----+-----+
| UserName | ItemName | ItemPrice | ItemQuantity | TotalPrice | Category | Image
+-----+-----+-----+-----+-----+
| deepika@gmail.com | Cucumber | 30 | 10 | 300 | vegetable | https://gardenerspath.com/wp-content/uploads/2021/07/Cucumber-Hollow-Heart-Causes-and-Solutions-FB-2.jpg |
| deepika@gmail.com | Curd | 100 | 10 | 1000 | dairy | https://www.bigbasket.com/media/uploads/p/xxl/40053502_5-godrej-jersey-curd.jpg |
+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```

```
mysql> select * from cart;
```

```
+-----+-----+-----+-----+-----+
| UserName | ItemName | ItemPrice | ItemQuantity | TotalPrice | Category | Image
+-----+-----+-----+-----+-----+
| deepika@gmail.com | Cucumber | 30 | 10 | 300 | vegetable | https://gardenerspath.com/wp-content/uploads/2021/07/Cucumber-Hollow-Heart-Causes-and-Solutions-FB-2.jpg |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from orders;
```

```
+-----+-----+-----+-----+-----+
| UserName | ItemName | ItemPrice | ItemQuantity | TotalPrice | Category | Image
+-----+-----+-----+-----+-----+
| tejas@gmail.com | Barley | 120 | 1 | 120 | Pulses&cereals | https://m.media-amazon.com/images/I/71hW9pOHSfL._SL1500_.jpg
| 2022-11-05 |
| tejas@gmail.com | Brinjal | 35 | 1 | 35 | vegetable | https://cdn.shopify.com/s/files/1/0522/4149/8278/products/roundbrinjal_600x.jpg?v=1655523147
| 2022-11-05 |
| tejas@gmail.com | Butter | 300 | 1 | 300 | dairy | https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRBzlnBqTGjBh0-Ll8xeP8PoWaem9q4i-mMfA&usqp=CAU
| 2022-11-05 |
| karthikeya2003@gmail.com | Apple | 100 | 100 | 10000 | fruit | https://st1.latestly.com/wp-content/uploads/2021/08/resize-27-3-784x441.jpg
| 2022-11-06 |
| tejas@gmail.com | Cabbage | 25 | 2 | 50 | vegetable | https://foodrevolution.org/wp-content/uploads/istock-933853364.jpg
| 2022-11-06 |
| deepika@gmail.com | Cucumber | 30 | 10 | 300 | vegetable | https://gardenerspath.com/wp-content/uploads/2021/07/Cucumber-Hollow-Heart-Causes-and-Solutions-FB-2.jpg |
| 2022-11-06 |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

mysql> []



After ordering 10kg of cucumber the Updated Stock of Cucumber is 30kg.

Activities Firefox Web Browser Nov 6 17:13

EMart Grocery Store garlic - Google Search

localhost:8080/IT_Lab/ProductServlet?page=2

90% Cart

E-Mart Home Products Logout About Us Search Products here search

Enter Number of Items to Display : 10 Enter

Cucumber 1kg Rs.30 Left Stock :30kg Add To Cart

Curd 1kg Rs.100 Left Stock :150kg Add To Cart

Custard Apple 1kg Rs.40 Left Stock :60kg Add To Cart

Garlic 1kg Rs.30 Left Stock :100kg Add To Cart

Ghee 1kg Rs.120 Left Stock :40kg Add To Cart

AgriBee GREEN GOLD RESEARCH GREEN GRAM

Shivansh Organic Kulith

Sehath 100% Stone Ground Premium Jowar Atta

Okra

Screenshot of an e-commerce grocery store application. The top navigation bar includes links for Home, Products, Logout, About Us, a search bar, and a Cart icon. A sidebar on the left shows various icons. The main content area displays five product cards. Each card contains an image, the product name, its current stock quantity, its price, and its current left stock after an order of 10 units. An 'Add To Cart' button is also present in each card. The products shown are Cucumber, Curd, Custard Apple, Garlic, and Ghee. Below these are two more product cards: AgriBee GREEN GOLD RESEARCH GREEN GRAM and Shivansh Organic Kulith, followed by Sehath 100% Stone Ground Premium Jowar Atta and a final image of Okra.

Shopkeeper can Delete Items

Activities Firefox Web Browser ▾ Nov 6 16:46

EMart Grocery Store × + 90% ☆

localhost:8080/IT_Lab/SearchProducts

E-Mart Home Products Add Item Logout Orders About Us Cart

Enter Number of Items to Display : 10 Enter

Cabbage search

Cabbage

1kg

Rs.25

Left Stock :98kg

Update Stock Delete Item

Search for an Item to Delete and them Enter Delete Item



Activities Firefox Web Browser Nov 6 16:46

EMart Grocery Store + localhost:8080/IT_Lab/SearchProducts 90% ⚡

E-Mart Home Products Add Item Logout Orders About Us Cabbage search Cart

Enter Number of Items to Display : 10 Enter

The screenshot shows a Firefox browser window titled "EMart Grocery Store" with the URL "localhost:8080/IT_Lab/SearchProducts". The page displays a navigation bar with links for Home, Products, Add Item, Logout, Orders, and About Us. On the right side, there is a search bar containing the word "Cabbage" with a "search" button next to it. A red rectangular box highlights the search input field. Below the search bar, there is a text input field with the value "10" and an "Enter" button. The main content area of the page displays the message "Item is not found as the Item is Deleted by shopkeeper".



Activities Firefox Web Browser Nov 6 16:59

EMart Grocery Store garlic - Google Search 90% Cart

localhost:8080/IT_Lab/Customer_Login.jsp?msg=please Login as Buyer

E-Mart Home Products User Login User Register Orders About Us Search Products here search

Customer Login

Email:

Password:

Login

New User [Register](#)

When we click orders without log in then it redirects to Customer login



Activities Firefox Web Browser Nov 6 16:43

EMart Grocery Store + localhost:8080/IT_Lab/BuyNoworders 90% ⭐

E-Mart Home Products Add Item Logout Orders About Us Search Products here search Cart

g. Shopkeeper should be able to produce reports.
when shopkeeper clicks on orders it displays all the orders of all buyers

Orders between Dates dd / mm / yyyy and dd / mm / yyyy Enter

Orders

Image	ItemName	UserName	Category	ItemPrice	Quantity	TotalPrice	Ordered Date
	Barley	tejas@gmail.com	Pulses&cereals	120	1	Rs.120	2022-11-05
	Brinjal	tejas@gmail.com	vegetable	35	1	Rs.35	2022-11-05
	Butter	tejas@gmail.com	dairy	300	1	Rs.300	2022-11-05

Activities

Firefox Web Browser

Nov 6 16:43

●



EMart Grocery Store



localhost:8080/IT_Lab/BuyNoworders

90%



	Barley	tejas@gmail.com	Pulses&cereals	120	1	Rs.120	2022-11-05
	Brinjal	tejas@gmail.com	vegetable	35	1	Rs.35	2022-11-05
	Butter	tejas@gmail.com	dairy	300	1	Rs.300	2022-11-05
	Apple	karthikeya2003@gmail.com		100	100	Rs.10000	2022-11-06
	Cabbage	tejas@gmail.com	vegetable	25	2	Rs.50	2022-11-06

Total Quantity : 105

Total Price : 10505



Activities Firefox Web Browser Nov 6 16:44

EMart Grocery Store localhost:8080/IT_Lab/reports 90% 90%

E-Mart Home Products Add Item Logout Orders About Us Search Products here search Cart

Orders between Dates 06 / 11 / 2022 and 07 / 11 / 2022 Enter

i. Have support for relevant forms.
ii. Purchases during a range of dates. E.g. during last 1 month, between exact dates etc. (1 point)

Orders

Image	ItemName	UserName	Category	ItemPrice	Quantity	TotalPrice	Ordered Date
	Apple	karthikeya2003@gmail.com		100	100	Rs.10000	2022-11-06
	Cabbage	tejas@gmail.com	vegetable	25	2	Rs.50	2022-11-06

Total Quantity : 102

Total Price : 10050

Activities

Firefox Web Browser

Nov 6 16:44

●



EMart Grocery Store



localhost:8080/IT_Lab/reports

90%



Orders between Dates 05 / 11 / 2022 and 05 / 11 / 2022 Enter

Orders

Image	ItemName	UserName	Category	ItemPrice	Quantity	TotalPrice	Ordered Date
	Barley	tejas@gmail.com	Pulses&cereals	120	1	Rs.120	2022-11-05
	Brinjal	tejas@gmail.com	vegetable	35	1	Rs.35	2022-11-05
	Butter	tejas@gmail.com	dairy	300	1	Rs.300	2022-11-05

Total Quantity : 3

Total Price : 455



Activities Firefox Web Browser ▾ Nov 6 16:45 ●

EMart Grocery Store + - □ 90% X

localhost:8080/IT_Lab/reports

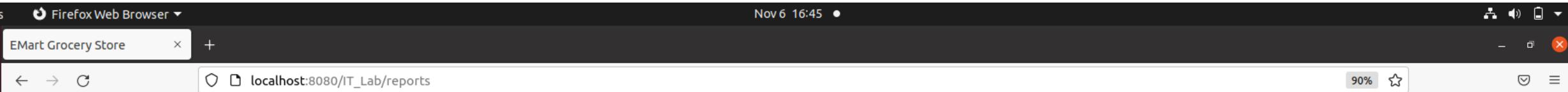
E-Mart Home Products Add Item Logout Orders About Us Search Products here search Cart

Orders between Dates 07 / 11 / 2022 and 07 / 11 / 2022 Enter

The ordered_date is invalid that is of tomorrow

Orders

Image	ItemName	UserName	Category	ItemPrice	Quantity	TotalPrice	Ordered Date
	Barley	tejas@gmail.com	Pulses&cereals	120	1	Rs.120	2022-11-05
	Brinjal	tejas@gmail.com	vegetable	35	1	Rs.35	2022-11-05
	Butter	tejas@gmail.com	dairy	300	1	Rs.300	2022-11-05



No Orders Found

Image	ItemName	Category	ItemPrice	Quantity	TotalPrice	Ordered Date
-------	----------	----------	-----------	----------	------------	--------------

Total Quantity :

Total Price :

So there are no orders found as the ordered_date is tomorrow



Activities Firefox Web Browser Nov 6 17:35

EMart Grocery Store garlic - Google Search localhost:8080/IT_Lab/userreport 90% Cart

E-Mart Home Products Add Item Logout Orders About Us Search Products here search

Orders between Dates dd / mm / yyyy and dd / mm / yyyy Enter

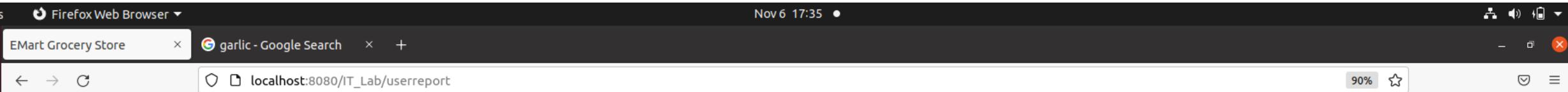
Enter UserName to get his purchases : deepika@gmail.com

Orders

Image	ItemName	UserName	Category	ItemPrice	Quantity	TotalPrice	Ordered Date
	Cucumber	deepika@gmail.com	vegetable	30	10	Rs.300	2022-11-06

ii. Must have support for purchases of a user (1 point)

Shopkeeper can enter username and get all the orders of that buyer



Orders between Dates and

Enter UserName to get his purchases :

Orders

Image	ItemName	UserName	Category	ItemPrice	Quantity	TotalPrice	Ordered Date
	Apple	<input type="text" value="karthikeya2003@gmailfcuitb"/>		100	100	Rs.10000	2022-11-06

Total Quantity : 100

Total Price : 10000

2. Non-functional requirements

a. All form fields must be properly validated in JavaScript (2 points)

Activities Firefox Web Browser Nov 6 16:51

EMart Grocery Store localhost:8080/IT_Lab/additems1.jsp 90% Cart

E-Mart Home Products Add Item Logout Orders About Us Search Products search

Add Item

Name:

Category:

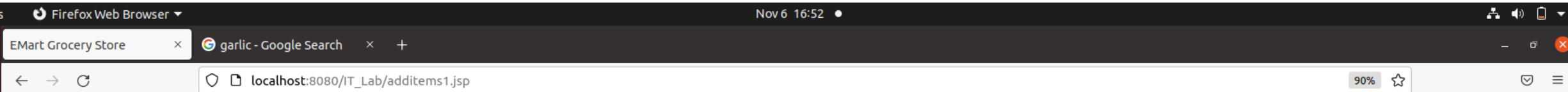
Price:

Image:

Stock:

Enter All Fields

Add

[Home](#)[Products](#)[Add Item](#)[Logout](#)[Orders](#)[About Us](#)[Search Products](#)[search](#)[Cart](#)

Add Item

Name:

Category

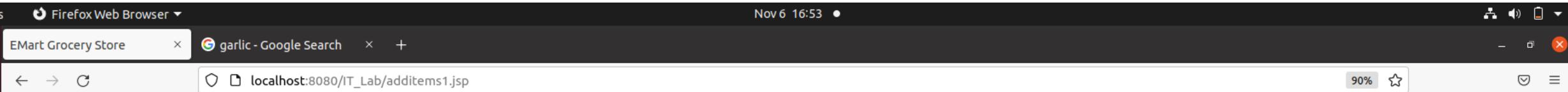
Price:

Image :

Stock :

Enter Item name

[Add](#)



Add Item

Name:

Category

Price:

Image :

Stock :

Enter Valid Name



Activities Firefox Web Browser Nov 6 16:53

EMart Grocery Store garlic - Google Search 90% Cart

localhost:8080/IT_Lab/additems1.jsp

E-Mart Home Products Add Item Logout Orders About Us Search Products search

Add Item

Name:

Category

Price:

Image :

Stock :

Enter Item price

Add



Activities Firefox Web Browser Nov 6 16:54

EMart Grocery Store garlic - Google Search 90% Cart

localhost:8080/IT_Lab/additems1.jsp

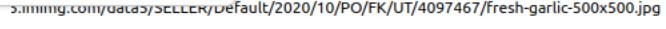
E-Mart Home Products Add Item Logout Orders About Us Search Products search

Add Item

Name:

Category:

Price: Please enter a number.

Image: 
<https://simimg.com/.../4097467/fresh-garlic-500x500.jpg>

Stock:

Enter Item price

Add



Activities Firefox Web Browser Nov 6 16:54

EMart Grocery Store garlic - Google Search 90% Cart

localhost:8080/IT_Lab/additems1.jsp

E-Mart Home Products Add Item Logout Orders About Us Search Products search

Add Item

Name:

Category:

Price:

Image:

Stock:

Enter Item image url

Add



Activities Firefox Web Browser Nov 6 16:54

EMart Grocery Store garlic - Google Search 90% Cart

localhost:8080/IT_Lab/additems1.jsp

E-Mart Home Products Add Item Logout Orders About Us Search Products search

Add Item

Name:

Category

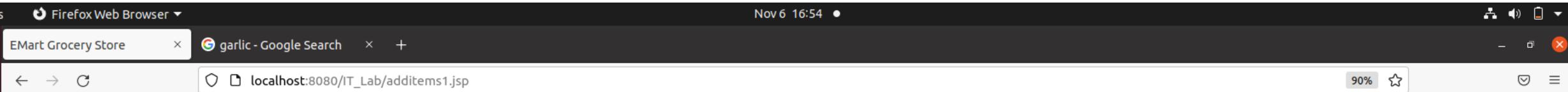
Price:

Image: Please enter a URL.

Stock:

Enter Item image url

Add



Add Item

Name:

Category

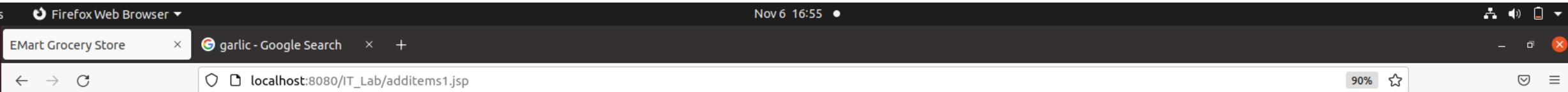
Price:

Image :

Stock :

Enter Item Stock

Add



Add Item

Name:

Category

Price:

Image :

Stock :

Enter Item Stock



Activities Firefox Web Browser Nov 6 16:55

EMart Grocery Store garlic - Google Search 90% [minimize] [maximize] [close]

localhost:8080/IT_Lab/Customer_Register.jsp

E-Mart Home Products User Login User Register Orders About Us Search Products search Cart

Customer Register

Name:	<input type="text" value="Enter your Name"/>
Email:	<input type="text" value="It should contain @.."/>
Password:	<input type="password"/>
Mobile:	<input type="text"/>
Address:	<input type="text"/>
Area PIN:	<input type="text"/>

Enter All Fields

Register

Already Registered [Login](#)



Activities Firefox Web Browser Nov 6 16:56

EMart Grocery Store garlic - Google Search 90% Cart

E-Mart Home Products User Login User Register Orders About Us Search Products search

Customer Register

Name:	<input type="text" value="Enter your Name"/>
Email:	<input type="text" value="ana@gmail.com"/>
Password:	<input type="password" value="....."/>
Mobile:	<input type="text" value="9876543212"/>
Address:	<input type="text" value="sangareddy"/>
Area PIN:	<input type="text" value="502006"/>

Enter Name

Register

Already Registered [Login](#)



Activities Firefox Web Browser Nov 6 16:56

EMart Grocery Store garlic - Google Search 90% Cart

E-Mart Home Products User Login User Register Orders About Us Search Products search

Customer Register

Name:	<input type="text" value="12"/>
Email:	<input type="text" value="ana@gmail.com"/>
Password:	<input type="password" value="....."/>
Mobile:	<input type="text" value="9876543212"/>
Address:	<input type="text" value="sangareddy"/>
Area PIN:	<input type="text" value="502006"/>

Enter Valid Name

Register

Already Registered [Login](#)



Activities Firefox Web Browser Nov 6 16:56

EMart Grocery Store garlic - Google Search localhost:8080/IT_Lab/Customer_Register.jsp 90% Cart

E-Mart Home Products User Login User Register Orders About Us Search Products search

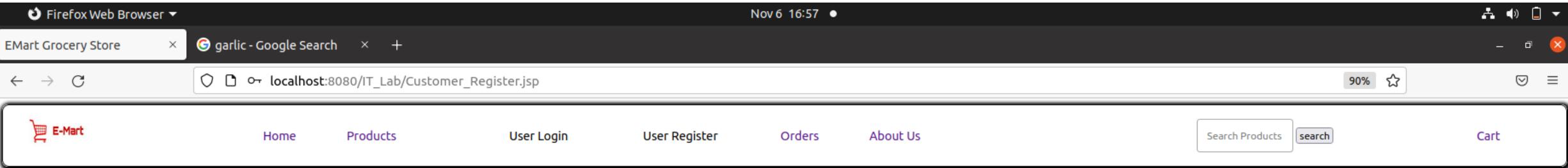
Customer Register

Name:	<input type="text" value="Anasuya"/>
Email:	<input type="text" value="It should contain @.."/>
Password:	<input type="password" value="....."/>
Mobile:	<input type="text" value="9876543212"/>
Address:	<input type="text" value="sangareddy"/>
Area PIN:	<input type="text" value="502006"/>

Enter Email

Register

Already Registered [Login](#)



Customer Register

Name:	<input type="text" value="Anasuya"/>
Email:	<input type="text" value="12335"/>
Password:	<input type="password" value="....."/>
Mobile:	<input type="text" value="9876543212"/>
Address:	<input type="text" value="sangareddy"/>
Area PIN:	<input type="text" value="502006"/>

Enter Email

Register

Already Registered [Login](#)



Activities Firefox Web Browser Nov 6 16:57

EMart Grocery Store garlic - Google Search 90% Cart

localhost:8080/IT_Lab/Customer_Register.jsp

E-Mart Home Products User Login User Register Orders About Us Search Products search

Customer Register

Name:	<input type="text" value="Anasuya"/>
Email:	<input type="text" value="12335"/>
Password:	<input type="password" value="....."/>
Mobile:	<input type="text" value="9876543212"/>
Address:	<input type="text" value="sangareddy"/>
Area PIN:	<input type="text" value="502006"/>

Enter Email

Register

Already Registered [Login](#)



Activities Firefox Web Browser Nov 6 16:57

EMart Grocery Store garlic - Google Search 90% Cart

localhost:8080/IT_Lab/Customer_Register.jsp

E-Mart Home Products User Login User Register Orders About Us Search Products search

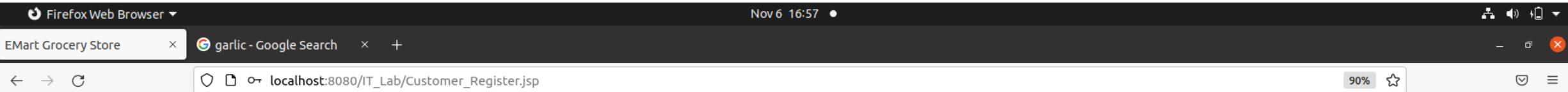
Customer Register

Name:	<input type="text" value="Anasuya"/>
Email:	<input type="text" value="ana@gmail.com"/>
Password:	<input type="password" value="....."/>
Mobile:	<input type="text"/>
Address:	<input type="text" value="sangareddy"/>
Area PIN:	<input type="text" value="502006"/>

Enter Mobile Number

Register

Already Registered [Login](#)



Customer Register

Name:

Email:

Password:

Mobile:

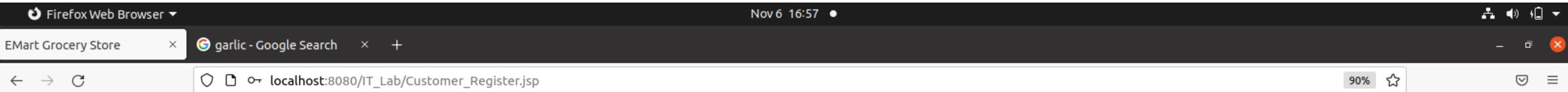
Address:

Area PIN:

Enter Valid Mobile number

[Register](#)

Already Registered [Login](#)



Customer Register

Name:

Email:

Password:

Mobile:

Address:

Area PIN:

[Enter Address](#)

[Register](#)

Already Registered [Login](#)



Activities Firefox Web Browser Nov 6 16:57

EMart Grocery Store garlic - Google Search localhost:8080/IT_Lab/Customer_Register.jsp 90% Cart

E-Mart Home Products User Login User Register Orders About Us Search Products search

Customer Register

Name: Anasuya

Email: ana@gmail.com

Password:

Mobile: 987654312

Address: sangareddy

Area PIN:

Enter Area pin

Register

Already Registered [Login](#)

This screenshot shows a customer registration form on a web page titled "Customer Register". The form includes fields for Name, Email, Password, Mobile, Address, and Area PIN. The "Address" field contains the value "sangareddy". A red error message "Enter Area pin" is displayed below the "Area PIN:" input field. At the bottom, there is a green "Register" button and a link for users who have already registered.



Activities Firefox Web Browser Nov 6 16:58

EMart Grocery Store garlic - Google Search 90% Cart

localhost:8080/IT_Lab/Customer_Register.jsp

E-Mart Home Products User Login User Register Orders About Us Search Products search

Customer Register

Name: Anasuya

Email: ana@gmail.com

Password:

Mobile: 987654312

Address: sangareddy

Area PIN: abc

Enter Area pin

Register

Already Registered [Login](#)

This screenshot shows a customer registration form on a web page titled "Customer Register". The form includes fields for Name, Email, Password, Mobile, Address, and Area PIN. The "Name" field contains "Anasuya", "Email" contains "ana@gmail.com", "Password" contains ".....", "Mobile" contains "987654312", and "Address" contains "sangareddy". The "Area PIN" field contains "abc" and has a red error message "Enter Area pin" below it. A "Register" button is at the bottom left, and a "Login" link is at the bottom right. The top navigation bar includes links for Home, Products, User Login, User Register, Orders, and About Us, along with a search bar and a cart icon.



Activities Firefox Web Browser Nov 6 16:58

EMart Grocery Store garlic - Google Search 90% Cart

localhost:8080/IT_Lab/Customer_Login.jsp

E-Mart Home Products User Login User Register Orders About Us Search Products here search

Customer Login

Email:

Password:

Enter All Fields

Login

New User [Register](#)



Activities Firefox Web Browser Nov 6 16:58

EMart Grocery Store garlic - Google Search 90% Cart

localhost:8080/IT_Lab/Customer_Login.jsp

E-Mart Home Products User Login User Register Orders About Us Search Products here search

Customer Login

Email:

tejas@gmail.com

Password:

Enter Password

Login

New User [Register](#)



Activities Firefox Web Browser Nov 6 16:59

EMart Grocery Store garlic - Google Search 90% Cart

localhost:8080/IT_Lab/Customer_Login.jsp

E-Mart Home Products User Login User Register Orders About Us Search Products here search

Customer Login

Email:

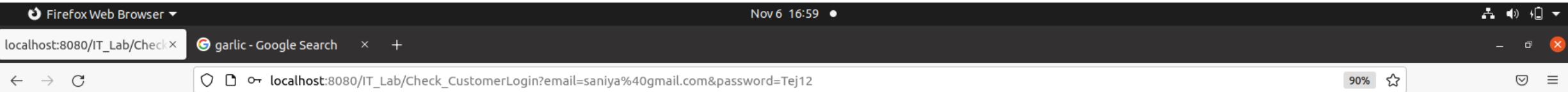
Password:

.....

Enter Email address

Login

New User [Register](#)



When username and password entered in login are not correct

Incorrect Username and Password

c. Have single header and footer across all the pages. Ensure the look and feel is same across all the pages. (2 points)

The screenshot shows the Eclipse IDE interface with three code editors open:

- header.jsp**: A JSP file containing logic to handle user authentication based on cookie values. It includes conditional blocks for different user types (username, userType) and validation for name, email, and password.
- footer.html**: An HTML file containing a navigation bar with links for Home, Products, Add Item, and a dropdown menu for User Login and Shopkeeper Login.
- home.jsp**: The main page where the header and footer are included. It also contains validation logic for name, email, password, and mobile number.

The code editor tabs are labeled "header.jsp x", "footer.html x", and "home.jsp x". The "home.jsp" tab has a red box highlighting the line containing the footer inclusion directive. The Eclipse toolbar and various icons are visible along the top and left edges of the interface.

When about us is clicked

Activities Firefox Web Browser ▾ Nov 6 16:45 ●

EMart Grocery Store +

localhost:8080/IT_Lab/about.jsp 90% ☆

E-Mart Home Products Add Item Logout Orders About Us Search Products here search Cart

ABOUT US

OUR MISSION :

The joyous times are often spent at the dinner table as we gather with family and friends. Here at E Mart, we strive to provide fresh and high quality international foods from around the world to encourage diversity through delicious cultural foods while satisfying your taste buds!

CONTACT US :

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emart@gmail.com
emartgrocerystore@gmail.com

THANK YOU