

Project Presentation

COCART

Industrial Training on Java (Core & Advanced)
From 11.01.2021 to 09.07.2021



Presented by
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Introduction

This project is an e-commerce based web application, where the users can buy different products like groceries, medicines online from their nearby area shops with no delivery charges. Admin can add or remove shops and products from the web application.

Problem Statement

At the present time when the world is grappled in such unprecedented crisis like that of Covid 19, thereby making it difficult for quite a number of people especially the senior citizens to go out for shopping by themselves. So COCART is an effort to address to daily requirements of the people by providing contact less door to door delivery of groceries and medicines from the nearby shops.

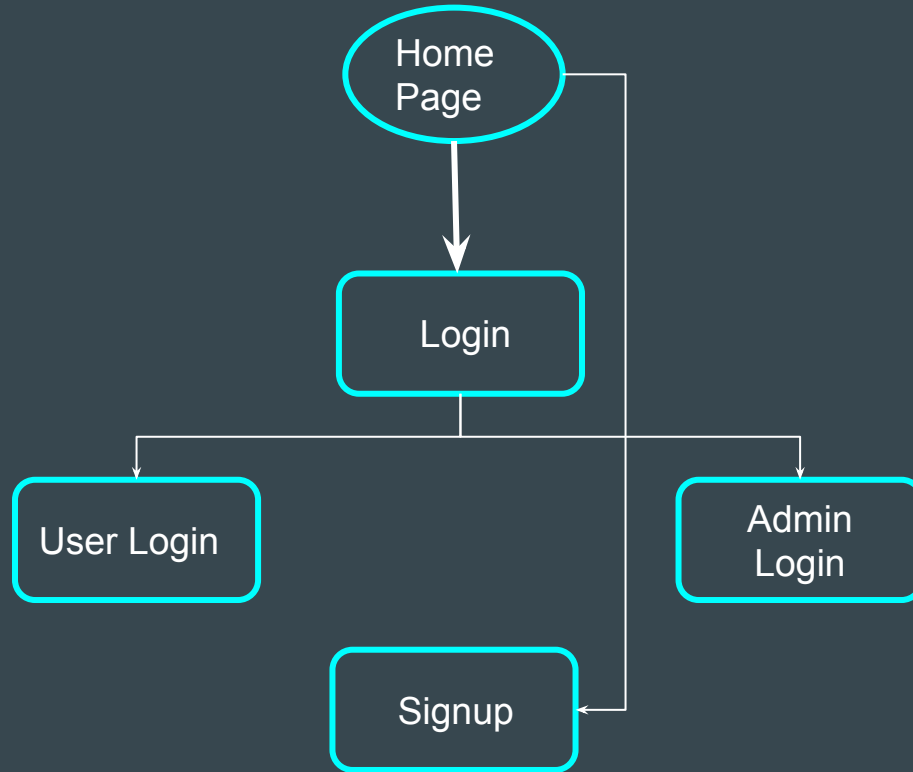
Problem formulation.

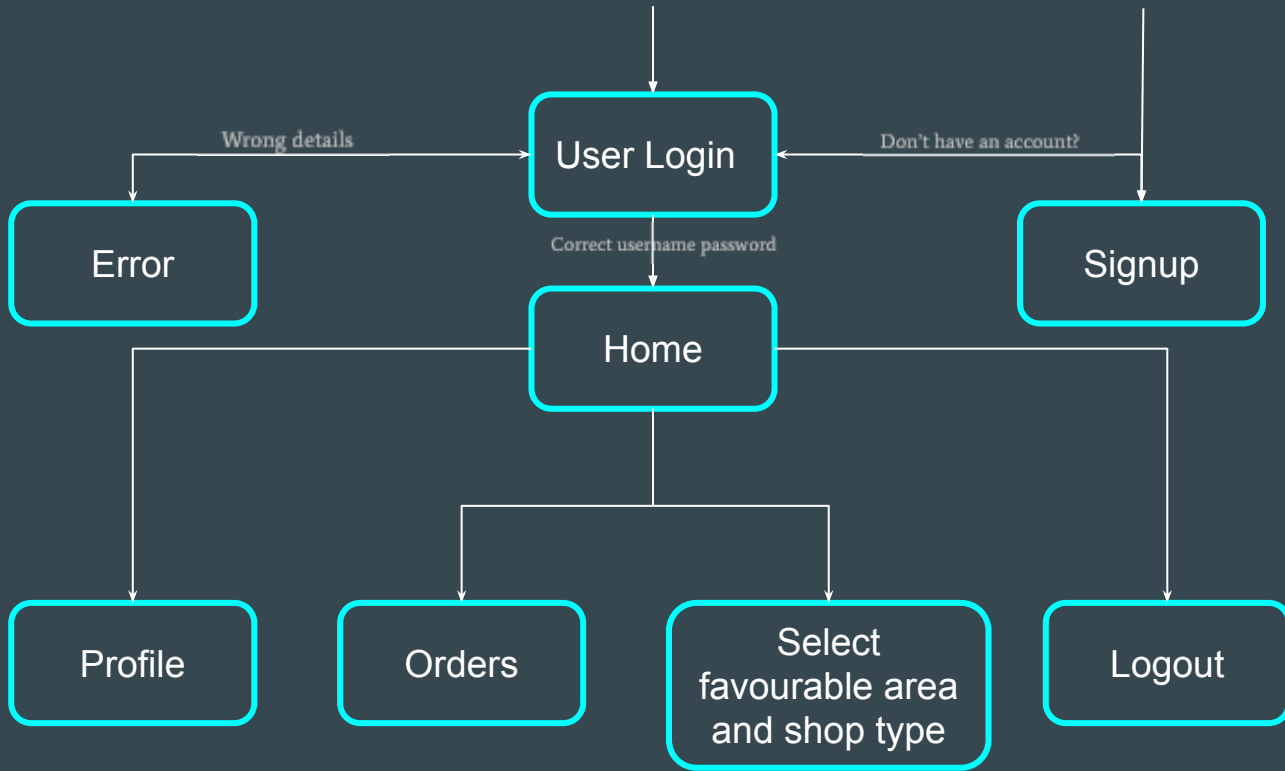
The user has to first sign up and then login to the shopping web application. After the user is logged in he/she has to select a nearby area to shop from and the type of product he wants to shop (grocery or medicos) from a drop-down button. Once the user has selected the area and the shop type the shops in the area will be enlisted and the user can shop from any shop nearby. The delivery will be free and fast.

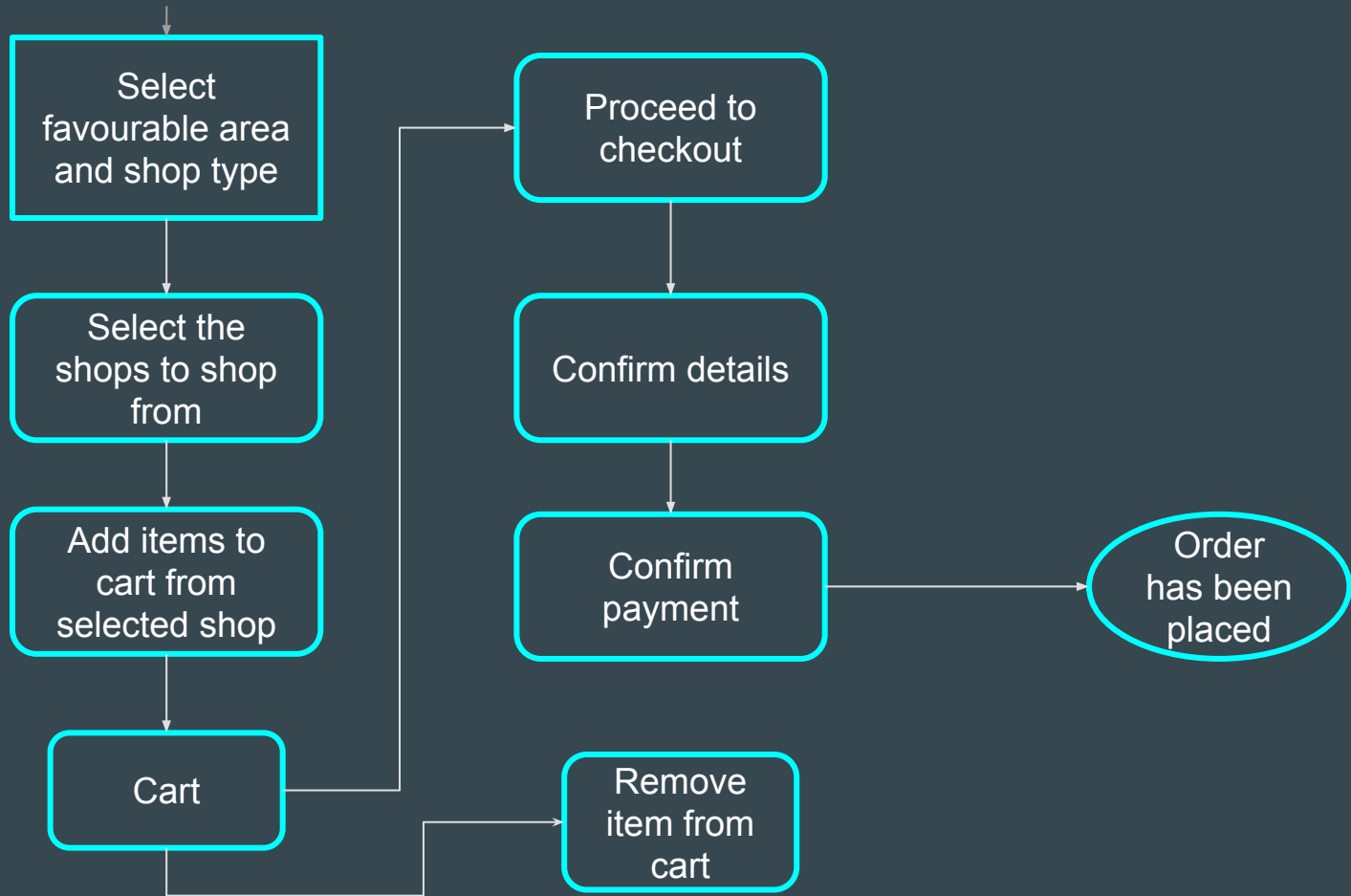
Technology Used.

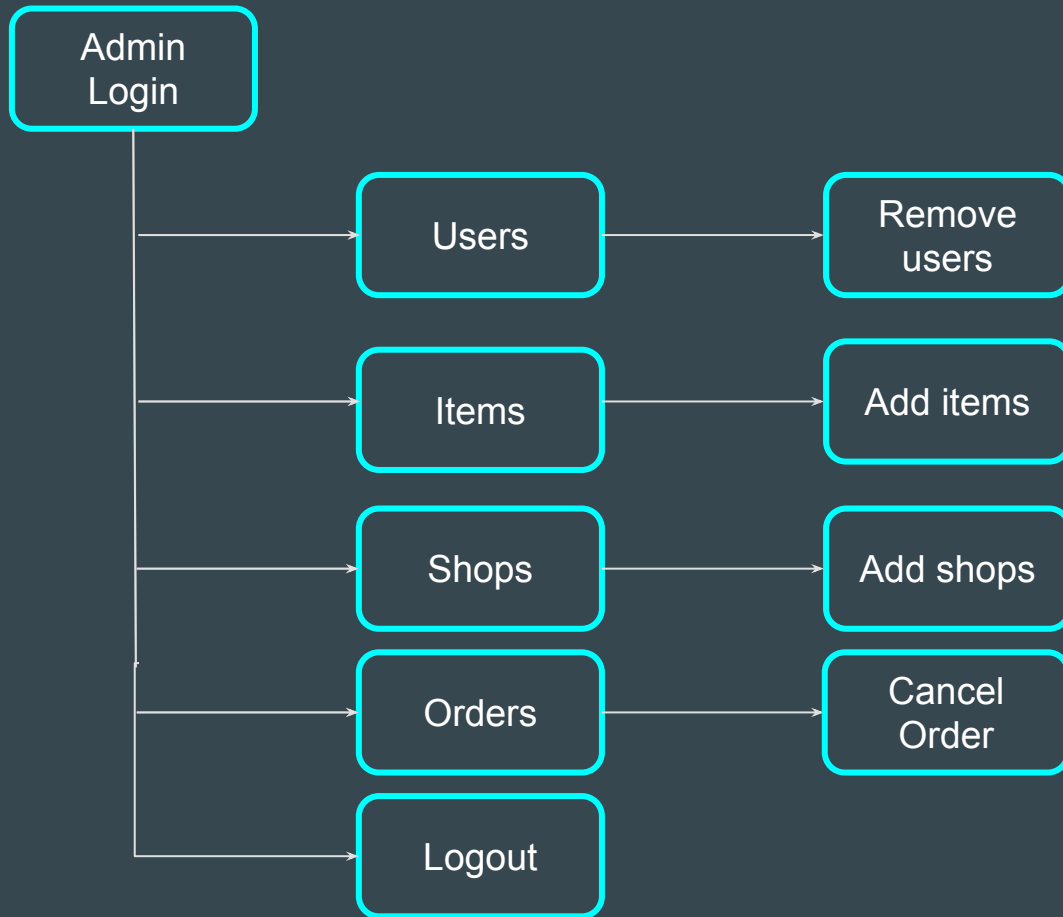
- This web application uses JSP, HTML, CSS and javascript to manage the front end.
 - Servlets are used to manage the server side request and response and to connect jsp to the database.
 - JDBC, MYSQL are used to manage back end/database.
 - Glassfish Server is used to display the application.
 - Netbeans IDE is used to write and run the code.
-

Design Methodology



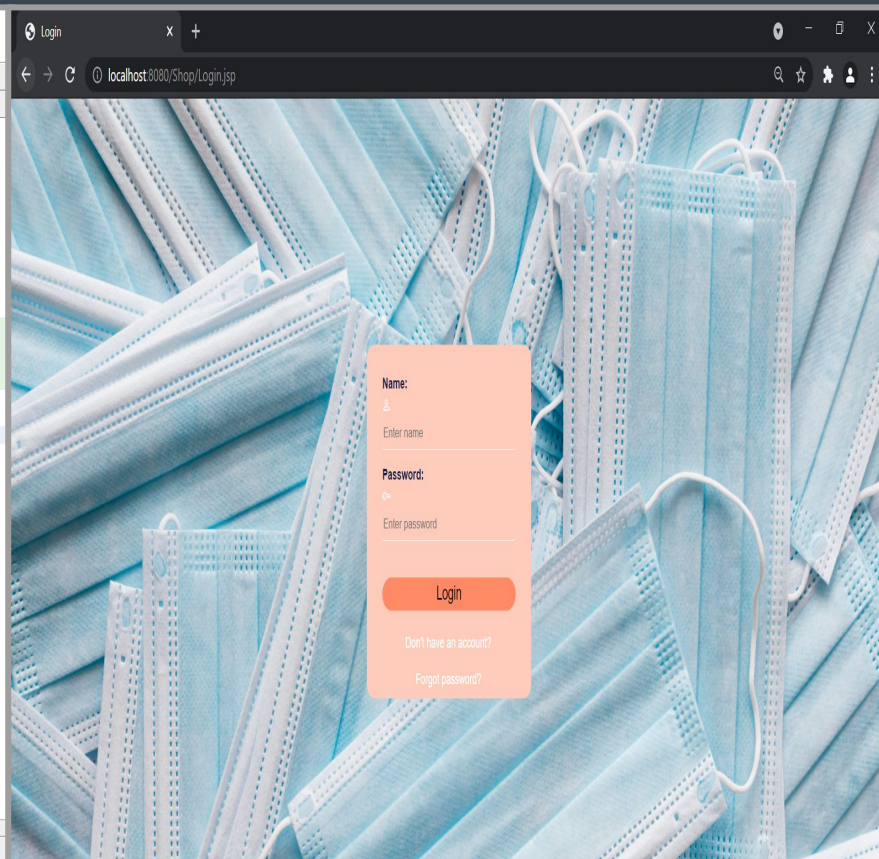






JSP Page

```
Shop - Apache NetBeans IDE 11.0
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
254.0.688.6143
Start Page x Index.jsp x header.css x Admin-sidebar.css x Admin-Sidebar.jsp x Admin.jsp x Login.jsp x
1
2
3 <%%page contentType="text/html" pageEncoding="UTF-8"%>
4 <!DOCTYPE html>
5 <html>
6 <head>
7 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
8 <title>Login</title>
9 <%%include file="ABC/cdn.jsp" %>
10 <link href="css/stylelp.css" rel="stylesheet" type="text/css"/>
11 <style>
12 body{
13     background-image: url(IMG/100.jpg)
14 }
15 </style>
16 </head>
17 <body>
18 <div class="pqr" >
19 <div class="lp box">
20 <form action = "Login" method = "post">
21 <p> Name: </p>
22 <i class="bi bi-person"></i><input type="text" name="username" placeholder="Enter name" required>
23 <p> Password: </p>
24 <i class="bi bi-key"></i><input type="password" name="password" placeholder="Enter password" required>
25 <br><br>
26 <input type="submit" value="Login" id="login">
27 <a href="Signup.jsp" style="margin-left: 35px">Don't have an account?</a><br>
28 <a href="Forgot_password.jsp" style="margin-left: 55px">Forgot password?</a>
29 </form>
30 </div></div>
31
32 </body>
33 </html>
34
35
36
Output
```



Servlet Page

```
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

public class Login extends HttpServlet {

    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        PrintWriter pw = response.getWriter();
        String username = request.getParameter("username"); //getting values.
        String password = request.getParameter("password");
        //connecting to the database.
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shopping?useSSL=false&allowPublicKeyRetrieval = "
                + " true", "root", "root");
            Statement stmt=con.createStatement();
            //running query to check username and password.
            ResultSet rs = stmt.executeQuery("select * from user_detail where name "
                + "='" + username + "' and " + "password='" + password + "'");

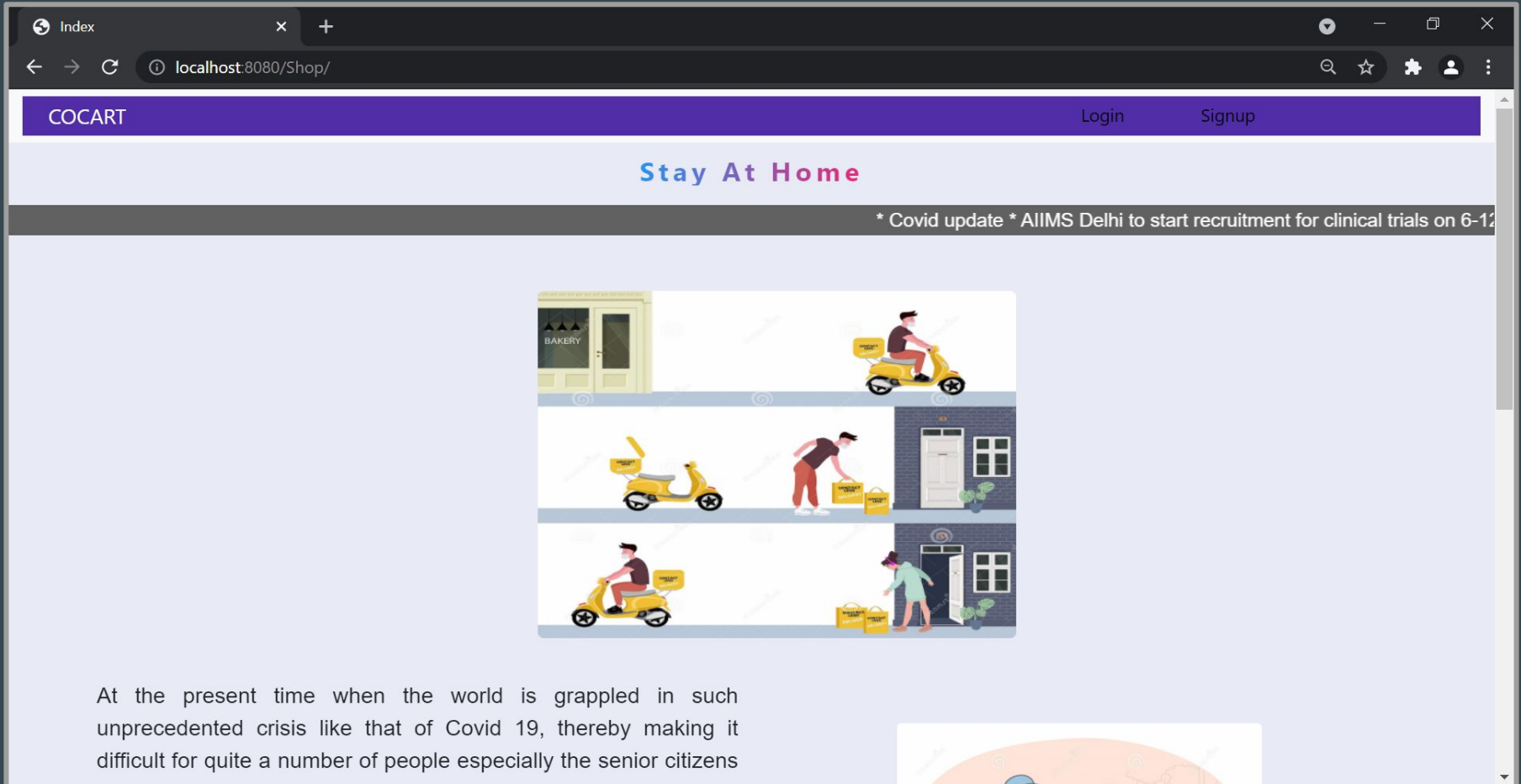
            if (rs.next())
            {
                HttpSession session = request.getSession(true);
                session.setAttribute("username", username);
                response.sendRedirect(request.getContextPath() + "/Home_Page0.jsp");
            }
        }
    }
}
```

```
    }  
    else  
    {  
        response.sendRedirect("Error.jsp"); //will open Errorr.jsp if username and password are wrong.  
    }  
}  
catch (SQLException se)  
{  
    pw.print(se);  
}  
catch (ClassNotFoundException c)  
{  
    pw.print(c);  
}  
}
```

HttpServlet methods. Click on the + sign on the left to edit the code.

}

Snapshots



City: Chandigarh Area: --Select area-- Shop Type: --Select Shop Type--

Submit

Shop ID	Shop Name	Booth no.	Area	Shop Type	Select shop
16	Life	13	Sector 3	Medicos	Select
17	Savers	16	Sector 3	Medicos	Select
18	Helpers	22	Sector 3	Medicos	Select
19	Random	23	Sector 3	Medicos	Select

WELCOME

ADMIN

👤 Users

🏪 Shops

🛒 Items

📄 Orders

🚪 Logout



Database Structure and Tables

Showing tables in the database

```
mysql> show tables;
+-----+
| Tables_in_shopping |
+-----+
| item                |
| orders              |
| shops                |
| user_detail          |
| ut                   |
+-----+
5 rows in set (0.14 sec)
```

Describing user_detail table

```
mysql> describe user_detail;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
name	varchar(25)	YES		NULL	
email	varchar(35)	YES		NULL	
mobile	varchar(10)	YES		NULL	
age	int	YES		NULL	
address	varchar(25)	YES		NULL	
Security_question	varchar(50)	YES		NULL	
answer	varchar(50)	YES		NULL	
password	varchar(15)	YES		NULL	

```
9 rows in set (0.00 sec)
```

Showing data in user_detail table

```
mysql> select * from user_detail;
```

id	name	email	mobile	age	address	Security_question	answer	password
1	Bhuvnesh Rana	abc@2234	1234567891	21	abcd	NULL	NULL	qwerty
2	Rana	abc@234	1234567891	21	abcd	NULL	NULL	1234
3	leap	leap@12	1234563218	13	234	NULL	NULL	98
4	lal	lal@12	1234563218	13	234	NULL	NULL	98
5	shiratorizawa	xyz@234	1234567891	21	abcde	NULL	NULL	neko
6	Bhuvnesh Rana	bhuvnesh.rana28@gmail.com	1234567891	21	abcd	NULL	NULL	1234
7	hanabi	hana@1122	1234563218	17	#234	NULL	NULL	fire
8	onyakapo	dark@1122	1234563218	17	#234	NULL	NULL	eee
9	Random	random@123	1234567891	31	#random	NULL	NULL	okabe
10	rengoku	rengoku@23	1234567891	22	#hashira	NULL	NULL	yabai
11	Sanjay	mehla@123	1234567891	22	#1234jhsagd	NULL	NULL	1234
12	Rishi Rana	rishi@gmail.in	1234567891	21	#2645	NULL	NULL	xyz
13	Admin	NULL	NULL	NULL	NULL	NULL	NULL	admin
17	Rana	rana@12	1234567891	19	#4652	Your fav anime chracter	random	abcd
18	Rahul	rana@12	1234567891	23	#4652	Your fav anime chracter	baki	1234

Describing shops table

```
mysql> describe shops;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
shop_name	varchar(50)	YES		NULL	
booth_no	int	YES		NULL	
area	varchar(25)	YES		NULL	
shop_type	varchar(15)	YES		NULL	

5 rows in set (0.00 sec)

Showing data in shops table

```
mysql> select * from shops;
```

id	shop_name	booth_no	area	shop_type
1	chadda	1	Sector 1	Grocery
2	Dairy	3	Sector 1	Grocery
3	Handa	4	Sector 1	Grocery
4	Sharma	8	Sector 1	Medicos
5	Apex	11	Sector 1	Medicos
6	Pharma	20	Sector 1	Medicos
7	All	1	Sector 2	Grocery
8	Abhi	12	Sector 2	Grocery
9	Verma	22	Sector 2	Grocery
10	Singh	11	Sector 2	Medicos

Describing item table

```
mysql> describe item;
```

Field	Type	Null	Key	Default	Extra
shop_id	int	NO		NULL	
item_id	int	NO	PRI	NULL	auto_increment
item_name	varchar(40)	YES		NULL	
item_price	varchar(15)	YES		NULL	

```
4 rows in set (0.00 sec)
```

Showing data in item table

```
mysql> select * from item;
```

shop_id	item_id	item_name	item_price
1	1	Bread	35
1	2	Milk	26
1	3	Biscuits	20
1	4	Flour(10)	350
1	5	Daal	100
1	6	Chocolate	75
1	7	Eggs	7
1	8	Maggi	10
2	9	Top Ramen	12
2	10	Mustard oil	95

Showing data in orders table

order_id	date	name	email	address	product	total
1	2021-06-11 13:15:46	Bhuvnesh Rana	rana@12	455	["Curd","Mustard oil"]	120
2	2021-06-11 13:17:25	leap	leap@12	#123	["Curd","Moov","Oxymeter"]	1525
3	2021-06-12 09:29:48	Bhuvnesh Rana	grand@gh	uhb	["Pasta"]	70
4	2021-06-12 09:36:52	brandon	bran@yahoo.com	12wefgh	["Sanitizer","Thermometer","Mask"]	230
5	2021-06-12 09:39:55	rengoku	kyojro@12	628	["Sanitizer","Pasta"]	190

Conclusion

It is a win-win situation for both consumers and sellers as the consumers don't have to go out by themselves to buy products and be law abiding citizens and for sellers, the business is as usual without worrying about the long queues outside their shops. This can definitely help in stopping the spread of the virus.

Learned real world applications of programming language like Java core and advanced.
Hands-on experience on working on NetBeans IDE and MySQL.

References

- <https://www.geeksforgeeks.org/>
- <https://www.javatpoint.com/>
- <https://stackoverflow.com/>
- <https://www.studentstutorial.com/>
- <https://sqlzoo.net/>
- <https://www.w3schools.com/>
- <https://www.youtube.com/>

Thank You