Name – Samina Haque

Roll No.- T91/IT/174101

Subject- Web and Android Technology

Topic- End Semester Project

# Content:

SL	Topic	Page No
1	Problem statement	3
2	Problem Analysis	4
3	Flow Chart	6
4	Class Diagram	7
5	Table Structure	8
6	SnapShots of the Project	9
7.	Conclusion	17

Problem Statement:

Develop a Web based client-server application for maintaining the inventory management. It accepts item detail and issue the same by checking all validations. System should have authentication.

Problem Analysis

The project follows MVC Architecture.

MVC Architecture
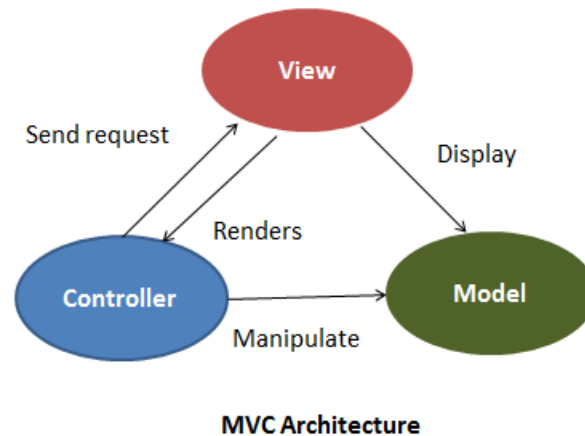
The project mainly consist of 6 steps:
1. Registration
2. Login
3. Adding Items in List
4. Deleting Items if Required
5. Calculating total amount
6. Confirming Order

Problem Analysis

Initially on registration the data is stored in SQL in a table named 'register'.

On Login the given username and password is authenticated with the database using the **Post Method** and on success the request is forwarded using **forward(request,response)** to admin-page.html. In the navigator area there are 3 actions each being forwarded to there respective pages.
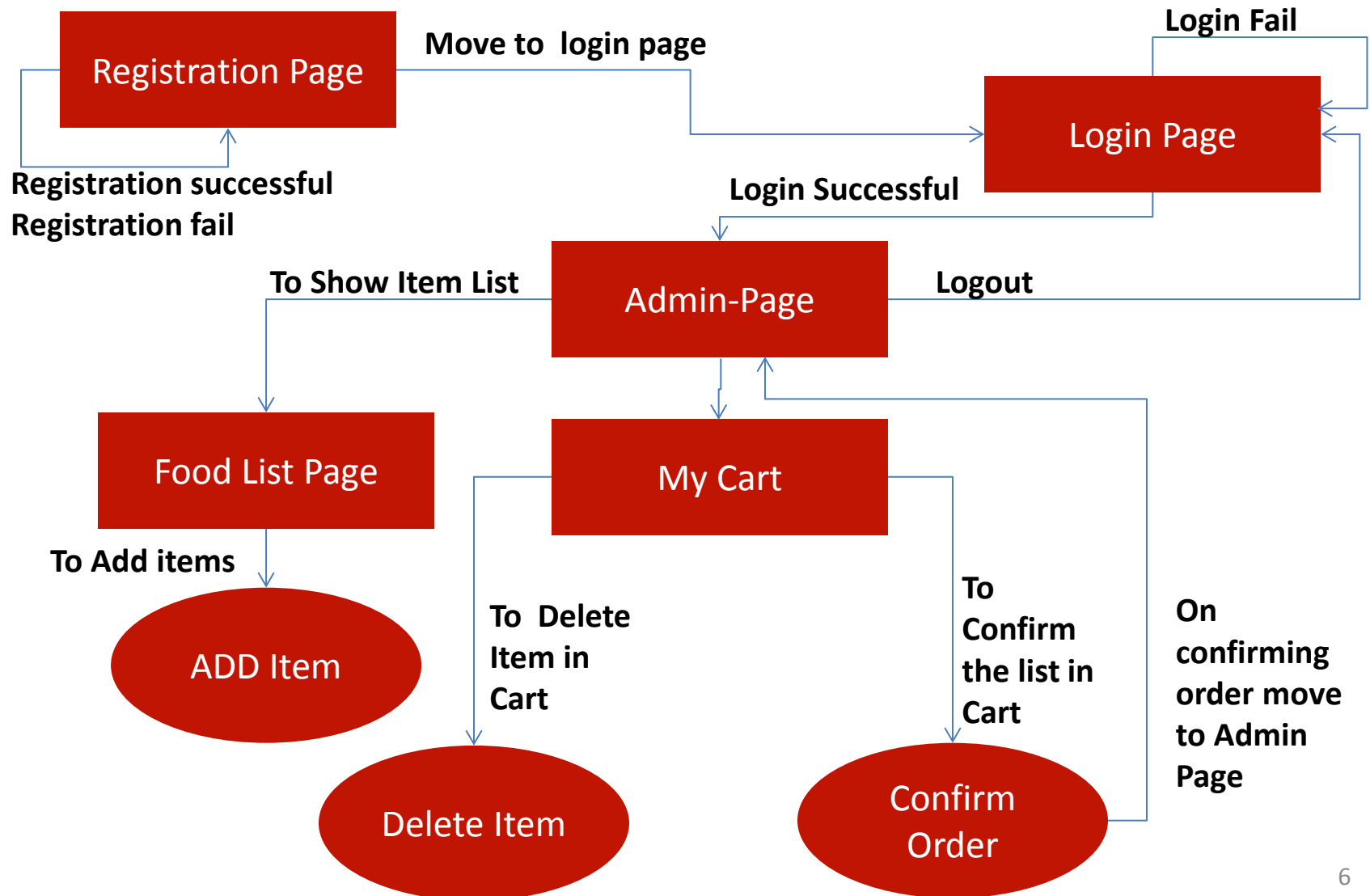
On adding items from the Item List , the price , name of item is stored in another database 'cart' and the request is included using **include(request,response)** to the same page.

The Cart option shows the selected items. Each Row has its delete option.On clicking in delete option using the **Get Method** the id is sent to the Dao.delete() and particular data is deleted.

Then the order is confirmed and the page is **Redirected to** admin-pge.html**.**

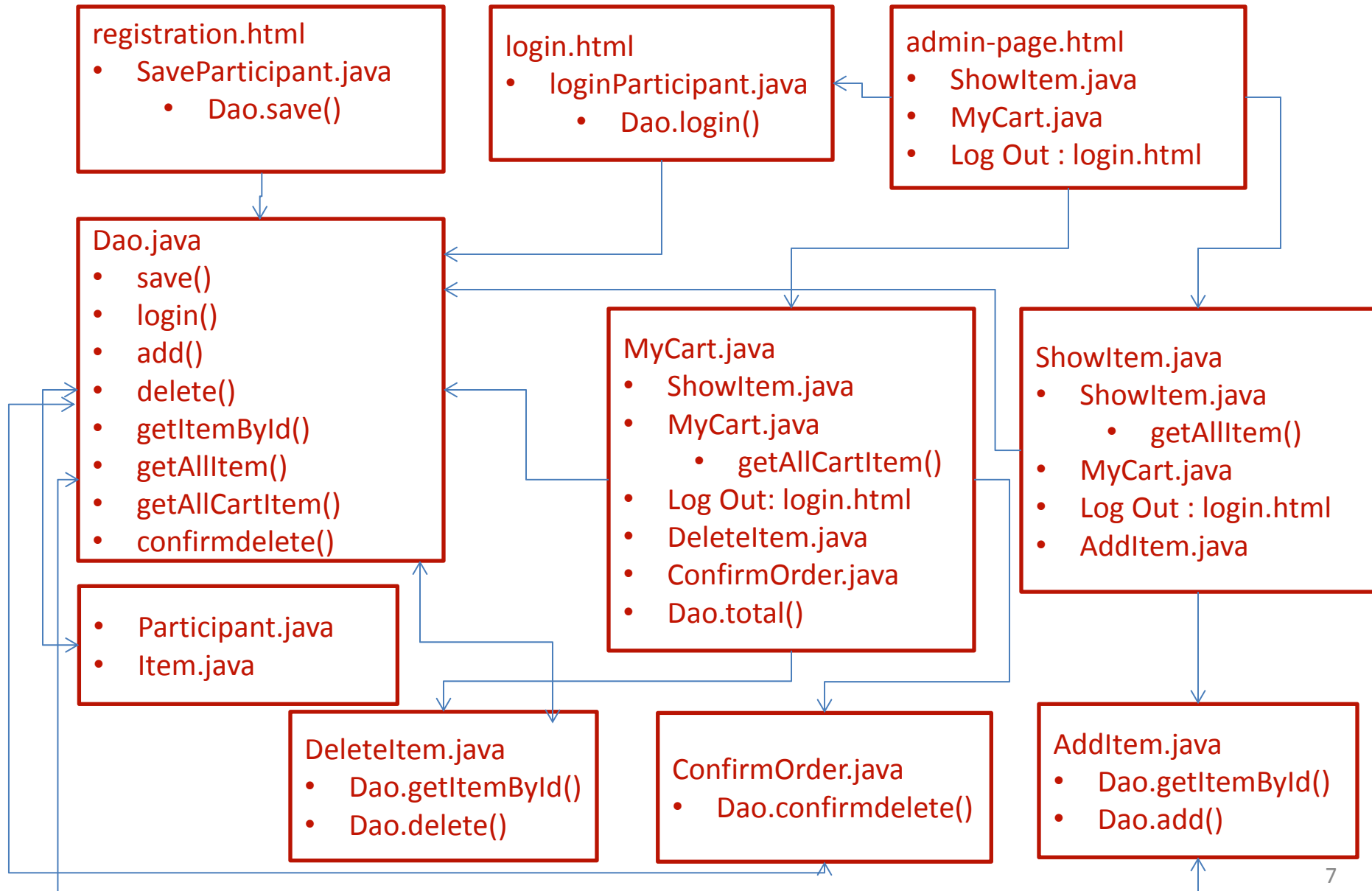Using session-config we set the timeout value as 15 sec in the xml file.

Flow Chart

Registration Page → Move to login page → Login Page

Login Fail

Registration successful
Registration fail

Login Successful

To Show Item List — Admin-Page — Logout

Food List Page

My Cart

To Add items

To Delete Item in Cart

To Confirm the list in Cart

On confirming order move to Admin Page

ADD Item

Delete Item

Confirm Order

6

Class Diagram

registration.html
- SaveParticipant.java
  - Dao.save()

login.html
- loginParticipant.java
  - Dao.login()

admin-page.html
- ShowItem.java
- MyCart.java
- Log Out : login.html

Dao.java
- save()
- login()
- add()
- delete()
- getItemById()
- getAllItem()
- getAllCartItem()
- confirmdelete()

- Participant.java
- Item.java

MyCart.java
- ShowItem.java
- MyCart.java
  - getAllCartItem()
- Log Out: login.html
- DeleteItem.java
- ConfirmOrder.java
- Dao.total()

ShowItem.java
- ShowItem.java
  - getAllItem()
- MyCart.java
- Log Out : login.html
- AddItem.java

DeleteItem.java
- Dao.getItemById()
- Dao.delete()

ConfirmOrder.java
- Dao.confirmdelete()

AddItem.java
- Dao.getItemById()
- Dao.add()

Table Structure

register

email	name	password	phone
abc@abc.com	abcde	abcde	12345
admin@abc.com	admin	pass	1234
aritra@abc.com	aritra	aritra	89786756
haque.samina16@gmail.com	samina haque	samina	987
hello@abc.com	hello	hello	985678
nusrat@abc.com	nusrat	nusrat	947418
sam90@gmail.com	samina	samina	943455
sam@gmail.com	Meghna	abcde	123456
shree@abc.com	Shreemoyee	shree	98765
sofia@gmail.com	sofia	sofia	12345

items

id	name	price
1	Chicken biryani	180
2	Chicken Chap	150
3	Gulab Jamun	50
4	Crispy Corn	120
5	Paneer kabab	200
6	IceCream	80
7	Jeera Rice	120
8	Mutton Biryani	200
9	Mutton Kasha	200
10	Salad	30

cart

id	name	price
1	Chicken biryani	180
2	Chicken Chap	150
5	Paneer kabab	200
6	IceCream	80

Step 1: Registration
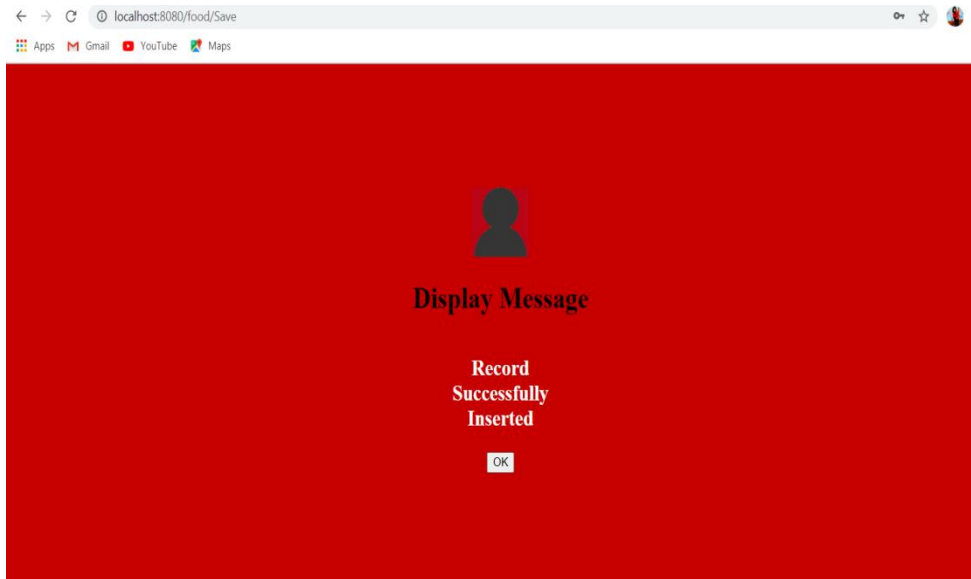
Registration Successful
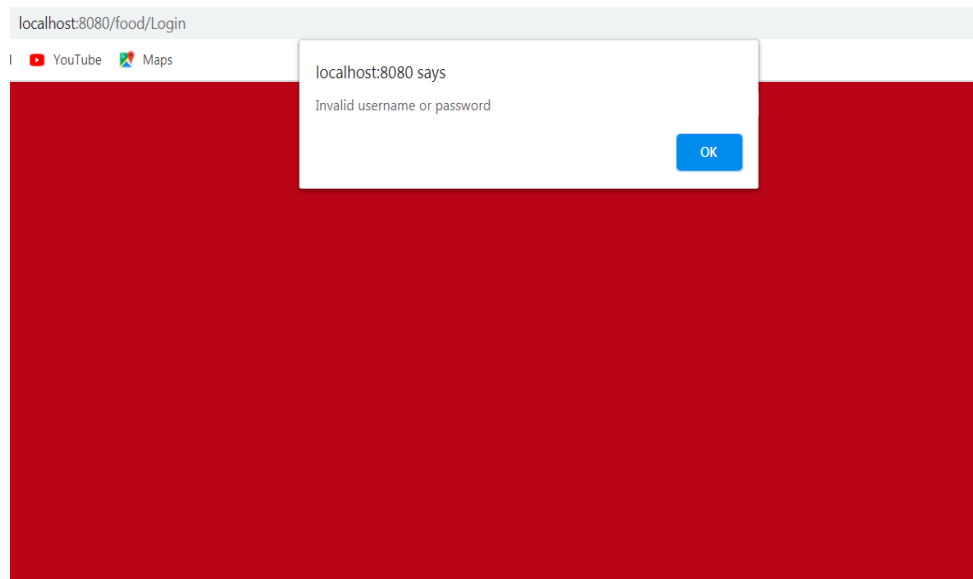
Registration Failed

Step 2: Login
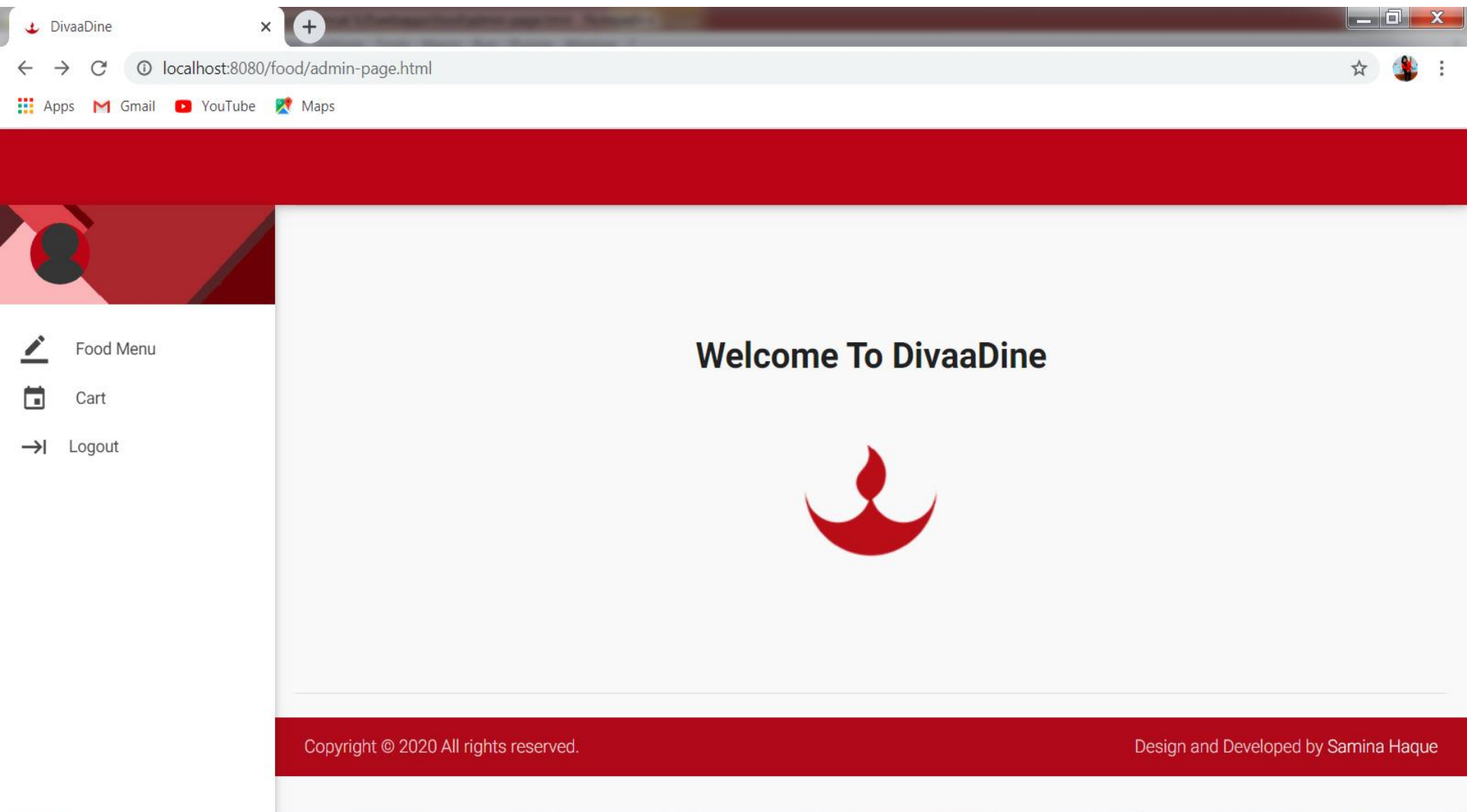
Step 3: On Successful Login the Welcome page opens

Step 4: Food Menu List opens and then Add the items to order.

SL	Name	Price	Add
1	Chicken biryani	180	Add
2	Chicken Chap	150	Add
3	Gulab Jamun	50	Add
4	Crispy Corn	120	Add
5	Paneer kabab	200	Add
6	IceCream	80	Add
7	Jeera Rice	120	Add
8	Mutton Biryani	200	Add
9	Mutton Kasha	200	Add

13

Step 5: Open the Cart to view the added items.

MY CART

SL	Name	Price	Delete
1	Chicken biryani	180	Delete
2	Chicken Chap	150	Delete
3	IceCream	80	Delete
4	Mutton Kasha	200	Delete

RECEIPT

Total =610

CONFIRM ORDER

Step 6: Click on Delete option to delete the particular item.

MY CART

SL	Name	Price	Delete
1	Chicken biryani	180	Delete
2	Gulab Jamun	50	Delete
3	Paneer kabab	200	Delete
4	Jeera Rice	120	Delete
5	Mutton Biryani	200	Delete
6	Mutton Kasha	200	Delete

RECEIPT

Total =950

Food Menu
Cart
Logout

MY CART

SL	Name	Price	Delete
1	Chicken biryani	180	Delete
2	Paneer kabab	200	Delete
3	Mutton Biryani	200	Delete
4	Mutton Kasha	200	Delete

RECEIPT

Total =780

CONFIRM ORDER

Before and After Snap of Deletion

Step 6: Click on the Confirm Order in MyCart page to confirm the order.
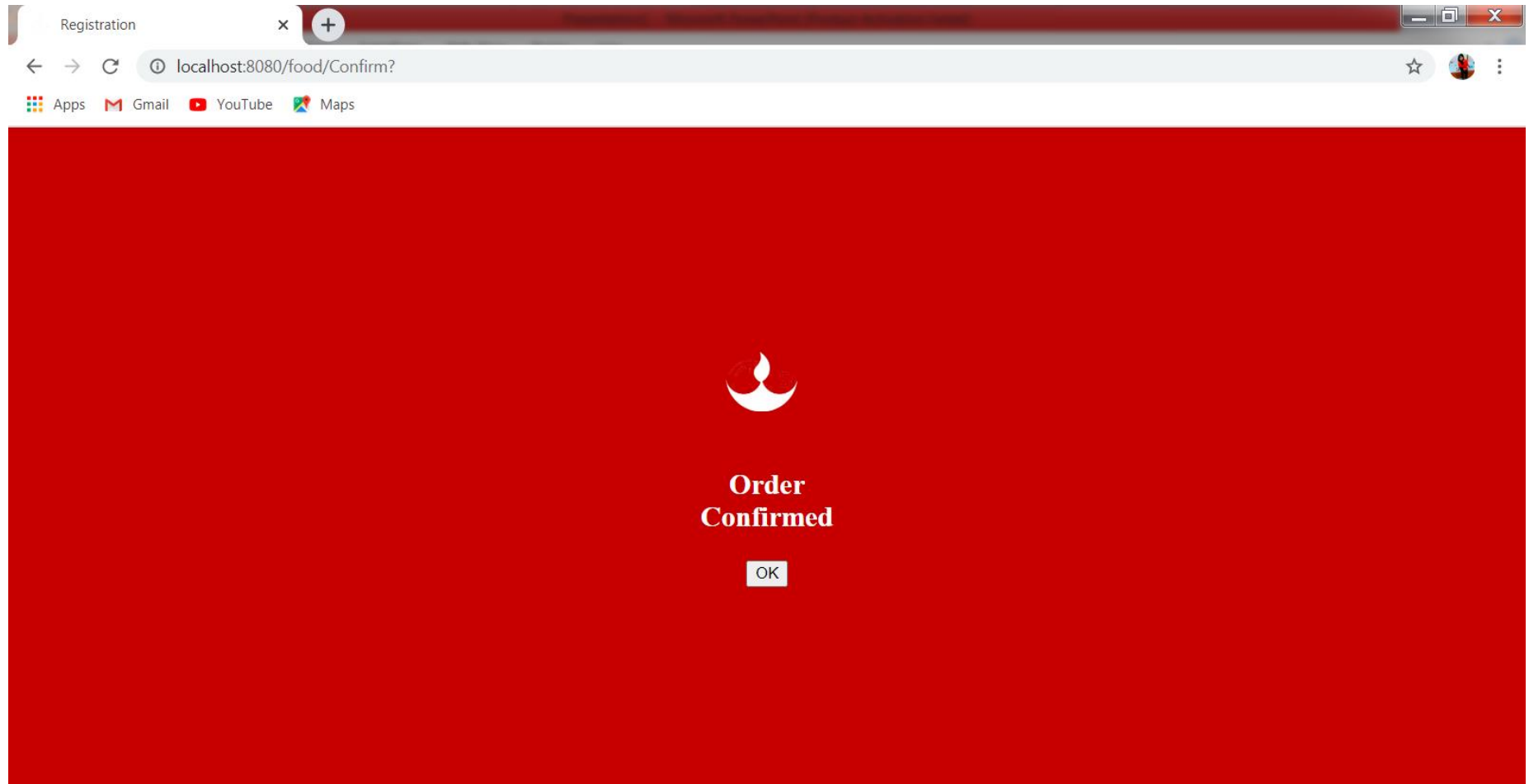
Conclusion:

- Using Html, CSS, JavaScript and Java Servlet we can easily design website.

Advantages of this architecture i.e. MVC:

- Easy code maintenance and easy to extend
- MVC Model component can be tested separately from the user
- It helps you to avoid complexity by dividing an application into the three units. Model, view, and controller
- All classed and objects are independent of each other so that you can test them separately.
- MVC allows logical grouping of related actions on a controller together.

Disadvantages:

- The framework navigation can some time complex as it introduces new layers of abstraction which requires users to adapt to the decomposition criteria of MVC.
- No formal validation support
- Increased complexity and Inefficiency of data
- The difficulty of using MVC with the modern user interface .