

Url is:<http://localhost:8080/hotelBooking>

1. Build at least two controller classes that will be required for your project.

The controller class in my project are:

- **HomeController.java**
- **CustomerController.java**
- **ReservationController.java**

2. Provide at least two Spring MVC forms which includes validation of some of the fields. You may have additional web pages that are not forms. The web pages do not have to be fancy (plain and simple is OK if you don't have much background with CSS, HTML, or JSP/JSTL).

The two spring MVC forms which includes the validations are:

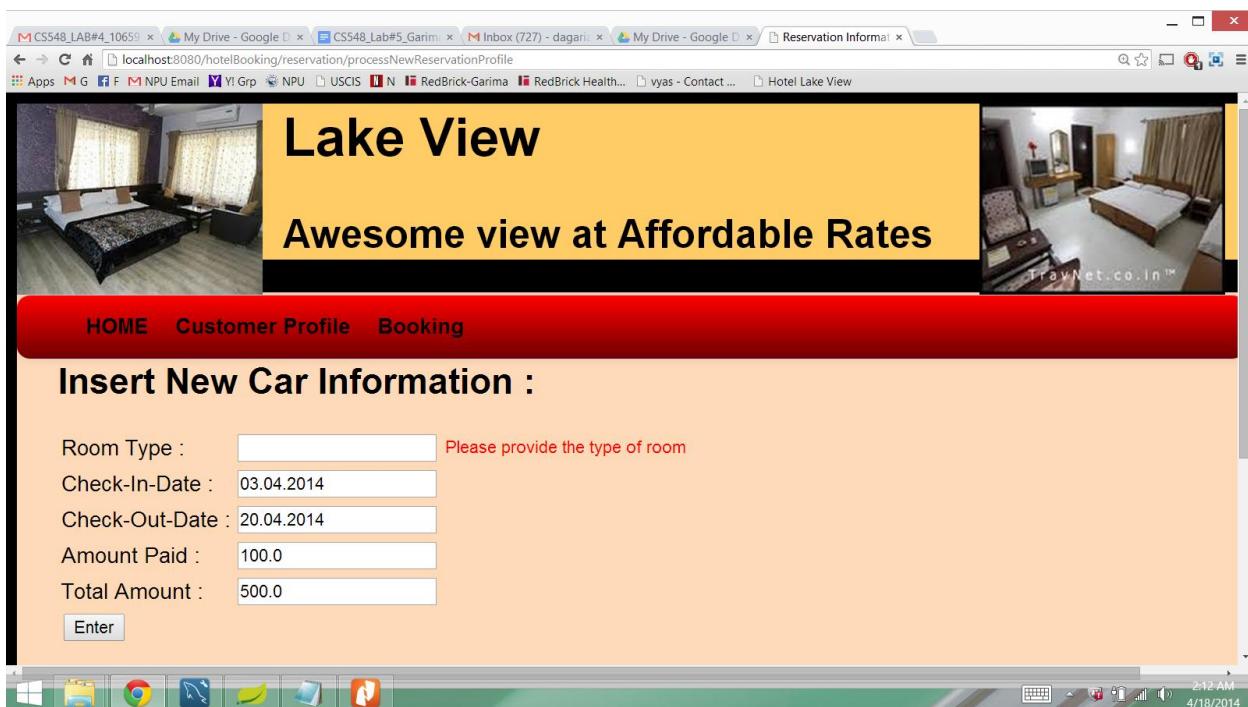
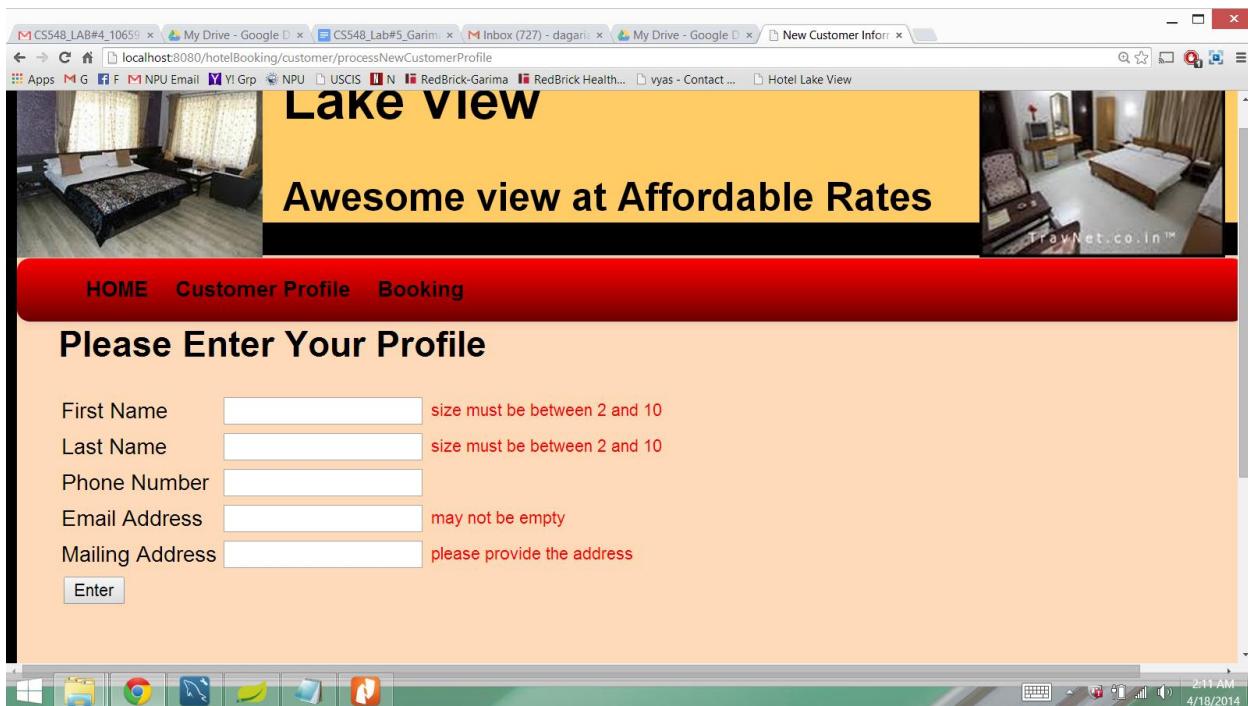
insertNewCustomerDataForm.jsp and **insertNewReservationDataForm.jsp**

The validations of some the fields are as the field should not be empty, the field should have the min and max characters and range of the field are defined.

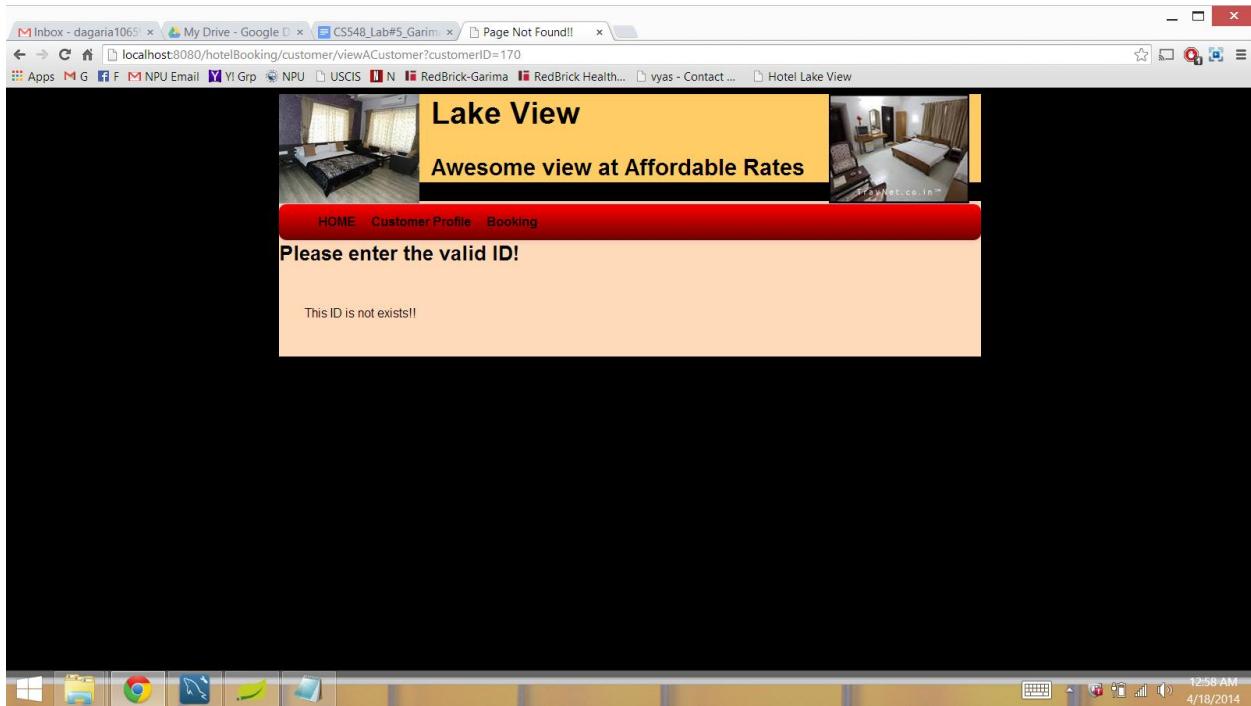
The Additional webpage in my project are:

- **home.jsp**
- **homeNavbar.jsp**
- **include.jsp**
- **insertNewCustomerDataForm.jsp**
- **insertNewCustomerProfileSuccess.jsp**
- **deleteCustomerDatForm.jsp**
- **deleteCustomerProfileSuccess.jsp**
- **selectACustomer.jsp**
- **selectACustomerID.jsp**
- **updateCustomerDataForm.jsp**
- **updateCustomerProfileSuccess.jsp**
- **updateGetCustomerID.jsp**
- **pageNotFound.jsp**
- **insertNewReservationDatForm.jsp**
- **insertNewReservationProfileSuccess.jsp**
- **deleteReservationDatForm.jsp**
- **deleteReservationProfileSuccess.jsp**
- **selectAReservation.jsp**
- **selectAReservationID.jsp**
- **updateReservationDataForm.jsp**
- **updateReservationProfileSuccess.jsp**
- **updateGetReservationID.jsp**

The scrrenshot of the Validations that are required in the forms are as follows:



If the user enter the wrong data and that values doesn't exists then the Page Not Found will display:



3. The web tier should call methods in the service tier. You do not need to hookup to the database. If not connected, database operations should be mocked either in the Service methods or with a mocked DAO layer.

In my project, the web tier calling the methods from the service tier and service tier is not hooked up with the database. The DAO layer is hooked up with the database.

4. Include in the resources folder the sql file necessary to create any necessary user accounts, create your database tables if your project uses a database.

The name of the files are containing the SQL needed to create and fill in sample data for tables are:

1.create_account.sql

2.create_booking.sql

The location of the files are in the **src/main/resources**

The Screenshots of the database are as follows:

Spring - CS548_HotelBooking/src/main/resources/create_account.sql - Spring Tool Suite

```

File Edit Navigate Search Project Run Window Help
Quick Access Spring Debug
Project Explorer
  courseapplication2
    CSS48_HotelBooking
      Spring Elements
        src/main/java
        src/main/resources
          META-INF
            create_account.sql
            create_booking.sql
            jdbc.properties
            service.xml
        src/test/java
        src/test/resources
        IRE System Library (J2SE-1.5)
        Maven Dependencies
        spring-jdbc-3.2.0.RELEASEjar - C:\Users\Garima\m2\repo\org\springframework\spring-jdbc\3.2.0.RELEASE\spring-jdbc-3.2.0.RELEASEjar.jar
        log4j-1.2.14jar - C:\Users\Garima\m2\repo\log4j\log4j\1.2.14\log4j-1.2.14jar.jar
        JavaScript Resources
        src
        target
        pom.xml
      firstMVCprj
      OrderPj
      OrderProcessorSpring
      OrderTransactions
Servers
  VMware vFabric tc Server Developer Edition v2.9
Database type: Undefined,not connected, Commit Mode: Auto
  Writable Insert 1:1 ...
  11:54 PM 4/3/2014

```

create_account.sql

Connection profile

Type: [] Name: [] Database: [] Status: Disconnected, Auto Commit

```

CREATE USER 'hoteldb_user'@'localhost' IDENTIFIED BY 'spring';

GRANT ALL PRIVILEGES ON cs548_hotels.* TO 'hoteldb_user'@'localhost' WITH GRANT OPTION;

SHOW GRANTS FOR 'hoteldb_user'@'localhost';

```

Spring - CS548_HotelBooking/src/main/resources/create_booking.sql - Spring Tool Suite

```

File Edit Navigate Search Project Run Window Help
Quick Access Spring Debug
Project Explorer
  courseapplication2
    CSS48_HotelBooking
      Spring Elements
        src/main/java
        src/main/resources
          META-INF
            create_account.sql
            create_booking.sql
            jdbc.properties
            service.xml
        src/test/java
        src/test/resources
        IRE System Library (J2SE-1.5)
        Maven Dependencies
        spring-jdbc-3.2.0.RELEASEjar - C:\Users\Garima\m2\repo\org\springframework\spring-jdbc\3.2.0.RELEASE\spring-jdbc-3.2.0.RELEASEjar.jar
        log4j-1.2.14jar - C:\Users\Garima\m2\repo\log4j\log4j\1.2.14\log4j-1.2.14jar.jar
        JavaScript Resources
        src
        target
        pom.xml
      firstMVCprj
      OrderPj
      OrderProcessorSpring
      OrderTransactions
Servers
  VMware vFabric tc Server Developer Edition v2.9
Database type: Undefined,not connected, Commit Mode: Auto
  Writable Insert 8:1 ...
  Thursday, April 3, 2014
  11:57 PM 4/3/2014

```

create_booking.sql

Connection profile

Type: [] Name: [] Database: [] Status: Disconnected, Auto Commit

```

delimiter ;
DROP SCHEMA IF EXISTS `cs548_hotel`;
CREATE SCHEMA `cs548_hotel`;
use `cs548_hotel`;

delimiter $$

CREATE TABLE `customer` (
  `customerID` int(11) NOT NULL AUTO_INCREMENT,
  `firstName` varchar(45) NOT NULL,
  `lastName` varchar(45) NOT NULL,
  `phoneNumber` varchar(45) DEFAULT NULL,
  `emailAddress` varchar(45) DEFAULT NULL,
  `mailingAddress` varchar(45) DEFAULT NULL,
  PRIMARY KEY (`customerID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE `card_info` (
  `cardNumber` int(11) NOT NULL,
  `cardType` varchar(45) NOT NULL,
  `expiryMonth` varchar(45) NOT NULL,
  `expiryYear` int(11) NOT NULL,
  `CVV` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE `reservation1` (
  `ReservationID` int(11) NOT NULL AUTO_INCREMENT,
  `ArrivalDate` varchar(45) NOT NULL
)

```

Spring - CS548_HotelBooking/src/main/resources/create_booking.sql - Spring Tool Suite

File Edit Navigate Search Project Run Window Help

Project Explorer

- courseapplication2
- CS548_HotelBooking
- Spring Elements
- src/main/java
- src/main/resources
- META-INF
 - create_account.sql
 - create_booking.sql
 - jdbc.properties
 - service.xml
- src/test/java
- src/test/resources
- JRE System Library [J2SE-1.5]
- Maven Dependencies
- spring-jdbc-3.2.0.RELEASEjar - C:\Users\Garima\m2\repo
- log4j-1.2.14jar - C:\Users\Garima\m2\repo
- JavaScript Resources
- src
- target
- pom.xml

Servers

- VMware vFabric tc Server Developer Edition v2.9

11:57 PM 4/3/2014

```

create_account.sql create_booking.sql
Connection profile
Type: [ ] Name: [ ] Database: [ ] Status: Disconnected, Auto Commit
CREATE TABLE `card_info` (
  `mailingAddress` varchar(45) DEFAULT NULL,
  PRIMARY KEY (`customerID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE `card_info` (
  `cardNumber` int(11) NOT NULL,
  `cardType` varchar(45) NOT NULL,
  `expiryMonth` varchar(45) NOT NULL,
  `expiryYear` int(11) NOT NULL,
  `CCV` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE `reservation1` (
  `ReservationID` int(11) NOT NULL AUTO_INCREMENT,
  `roomType` varchar(45) NOT NULL,
  `checkInDate` date NOT NULL,
  `checkOutDate` date NOT NULL,
  `amountPaid` float NOT NULL,
  `totalAmount` float NOT NULL,
  PRIMARY KEY (`ReservationID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE `room_inventory` (
  `economic` int(11) NOT NULL,
  `deluxe` int(11) NOT NULL,
  `executive` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

- MANAGEMENT
 - Server Status
 - Client Connections
 - Users and Privileges
 - Status and System Variables
 - Data Export
 - Data Import/Restore
- INSTANCE
 - Startup / Shutdown
 - Server Logs
 - Options File
- SCHEMAS
 - Tables
 - card_info
 - customer
 - reservation1
 - room_inventory
 - Columns
 - Indexes

Table: card_info

Columns:

cardNumber	cardType	expiryMonth	expiryYear	CCV
int(11)	varchar(45)	varchar(45)	int(11)	int(11)

card_info 1 ×

Action Output

Time	Action	Message	Duration / Fetch
119	23:22:27 SELECT * FROM cs548_hotel.customer	49 row(s) returned	0.000 sec / 0.000 sec
120	23:26:52 SELECT * FROM cs548_hotel.reservation1	7 row(s) returned	0.000 sec / 0.000 sec
121	23:39:04 SELECT * FROM cs548_hotel.card_info	0 row(s) returned	0.016 sec / 0.000 sec
122	23:45:45 SELECT * FROM cs548_hotel.room_inventory	0 row(s) returned	0.000 sec / 0.000 sec
123	23:49:59 SELECT * FROM cs548_hotel.card_info	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

11:50 PM 4/3/2014

MySQL Workbench

Local instance MySQL56 x

File Edit View Query Database Server Tools Scripting Help

Navigator: reservation1 reservation1 customer customer customer reservation1 card_info room_inventory card_info customer

MANAGEMENT: Server Status Client Connections Users and Privileges Status and System Variables Data Export Data Import/Restore

INSTANCE: Startup / Shutdown Server Logs Options File

SCHEMAS: Filter objects Tables card_info customer Columns customerID firstName lastName

Information: Table: customer

Columns: customerID int(11) AI PK firstName varchar(45) lastName varchar(45) phoneNumber varchar(45) emailAddress varchar(45) mailingAddress varchar(45)

customer 1 x

Result Set Filter: Edit Export/Import Wrap Cell Content:

customerID	firstName	lastName	phoneNumber	emailAddress	mailingAddress
4	Nisha	gor	234-234-1234	gh@abc.com	milpitas
37	Roshni	Banthis	408-724-2945	rbanthi09@gmail.com	MAIL
38	Roshni	Banthis	408-724-2945	rbanthi09@gmail.com	MAIL
39	Mishu	Jain	408-724-2945	rbanthi09@gmail.com	MAIL
40	Mishu	Jain	408-724-2945	rbanthi09@gmail.com	MAIL
41	Mishu	Jain	408-724-2945	rbanthi09@gmail.com	MAIL
42	Mishu	Jain	408-724-2945	rbanthi09@gmail.com	MAIL
43	Roshni	Jain	408-724-2945	rbanthi09@gmail.com	MAIL
44	Roshni	Jain	408-724-2945	rbanthi09@gmail.com	MAIL
45	Swapna	Singh	408-724-2945	rbanthi09@gmail.com	MAIL
47	Mishu	Dagaris	408-724-2945	rbanthi09@gmail.com	MAIL
52	Girima	Dagaris	408-724-2945	rbanthi09@gmail.com	MAIL
53	Girima	Dagaris	408-724-2945	rbanthi09@gmail.com	MAIL
54	Girima	Dagaris	408-724-2945	dagaris.girima@gmail.com	MAIL

Apply Cancel Context Help Snippets

Action Output: Time Action Message Duration / Fetch

- 120 23:26:52 SELECT * FROM cs548_hotel.reservation1 7 row(s) returned 0.000 sec / 0.000 sec
- 121 23:39:04 SELECT * FROM cs548_hotel.card_info 0 row(s) returned 0.016 sec / 0.000 sec
- 122 23:45:45 SELECT * FROM cs548_hotel.room_inventory 0 row(s) returned 0.000 sec / 0.000 sec
- 123 23:49:59 SELECT * FROM cs548_hotel.card_info 0 row(s) returned 0.000 sec / 0.000 sec
- 124 23:51:35 SELECT * FROM cs548_hotel.customer 49 row(s) returned 0.000 sec / 0.000 sec

Object Info Session

11:51 PM Show hidden icons 4/3/2014

MySQL Workbench

Local instance MySQL56 x

File Edit View Query Database Server Tools Scripting Help

Navigator: customer customer customer customer reservation1 card_info room_inventory card_info customer reservation1 room_inventory

MANAGEMENT: Server Status Client Connections Users and Privileges Status and System Variables Data Export Data Import/Restore

INSTANCE: Startup / Shutdown Server Logs Options File

SCHEMAS: Filter objects reservation1 room_inventory Columns Indexes Foreign Keys Triggers Views

Information: Table: room_inventory

Columns: economic int(11) deluxe int(11) executive int(11)

room_inventory 1 x

Result Set Filter: Export Wrap Cell Content:

	economic	deluxe	executive

Output: Action Output: Time Action Message Duration / Fetch

- 122 23:45:45 SELECT * FROM cs548_hotel.room_inventory 0 row(s) returned 0.000 sec / 0.000 sec
- 123 23:49:59 SELECT * FROM cs548_hotel.card_info 0 row(s) returned 0.000 sec / 0.000 sec
- 124 23:51:35 SELECT * FROM cs548_hotel.customer 49 row(s) returned 0.000 sec / 0.000 sec
- 125 23:52:21 SELECT * FROM cs548_hotel.reservation1 7 row(s) returned 0.000 sec / 0.000 sec
- 126 23:52:58 SELECT * FROM cs548_hotel.room_inventory 0 row(s) returned 0.000 sec / 0.000 sec

Object Info Session

11:52 PM Show hidden icons 4/3/2014

MySQL Workbench

Local instance MySQL56 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Local instance MySQL56 x

MANAGEMENT: Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore

INSTANCE: Startup / Shutdown, Server Logs, Options File

SCHEMAS: Filter objects, Tables (card_info, customer, reservation1, room_inventory), Views, Stored Procedures

Table: reservation1

Columns:

ReservationID	roomType	checkINDate	checkOUTDate	amountPaid	totalAmount
3	Deluxe	2014-02-14	2014-02-16	50	150
20	Deluxe	2014-04-03	2014-04-03	100	1000
21	Deluxe	2014-04-03	2014-04-03	100	1000
22	Deluxe	2014-04-03	2014-04-03	100	1000
23	Deluxe	2014-04-03	2014-04-03	100	1000
24	Deluxe	2014-04-03	2014-04-03	100	1000
25	Deluxe	2014-04-03	2014-04-03	100	1000
*	NULL	NULL	NULL	NULL	NULL

Result Set Filter: Edit: Export/Import: Wrap Cell Content: SQLAdditions: Jump to No Context Help

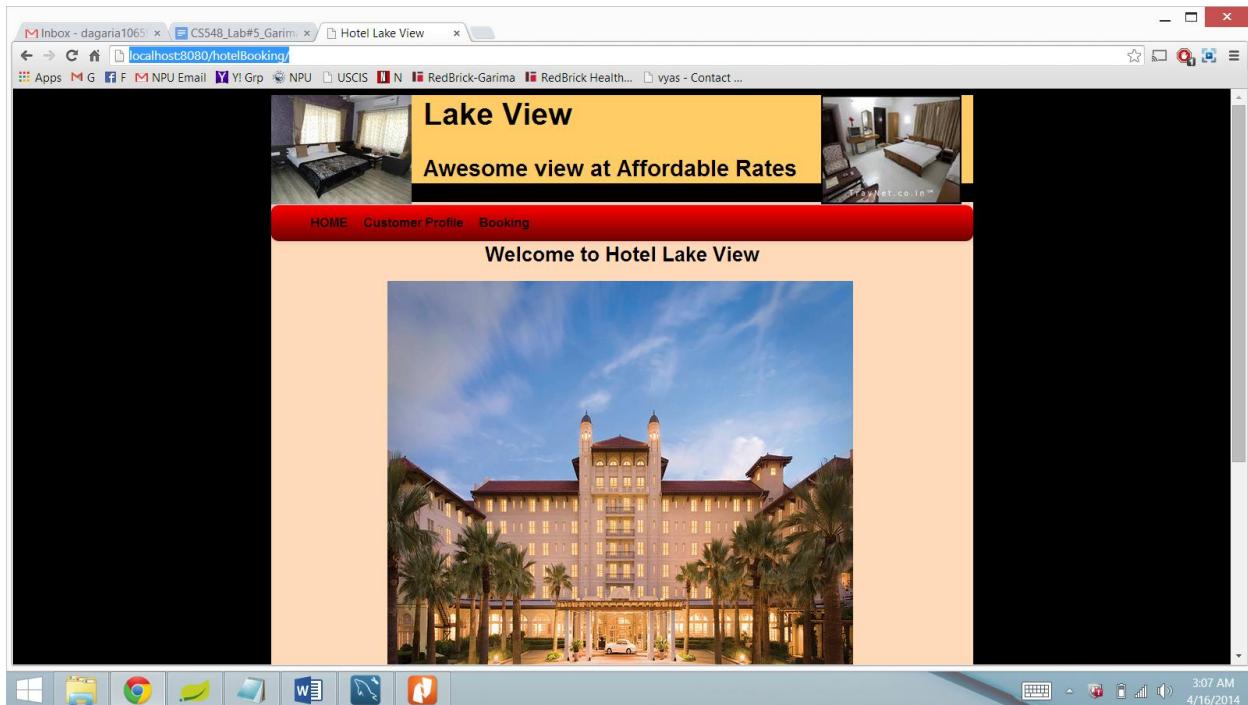
Action Output: Time Action Message Duration / Fetch

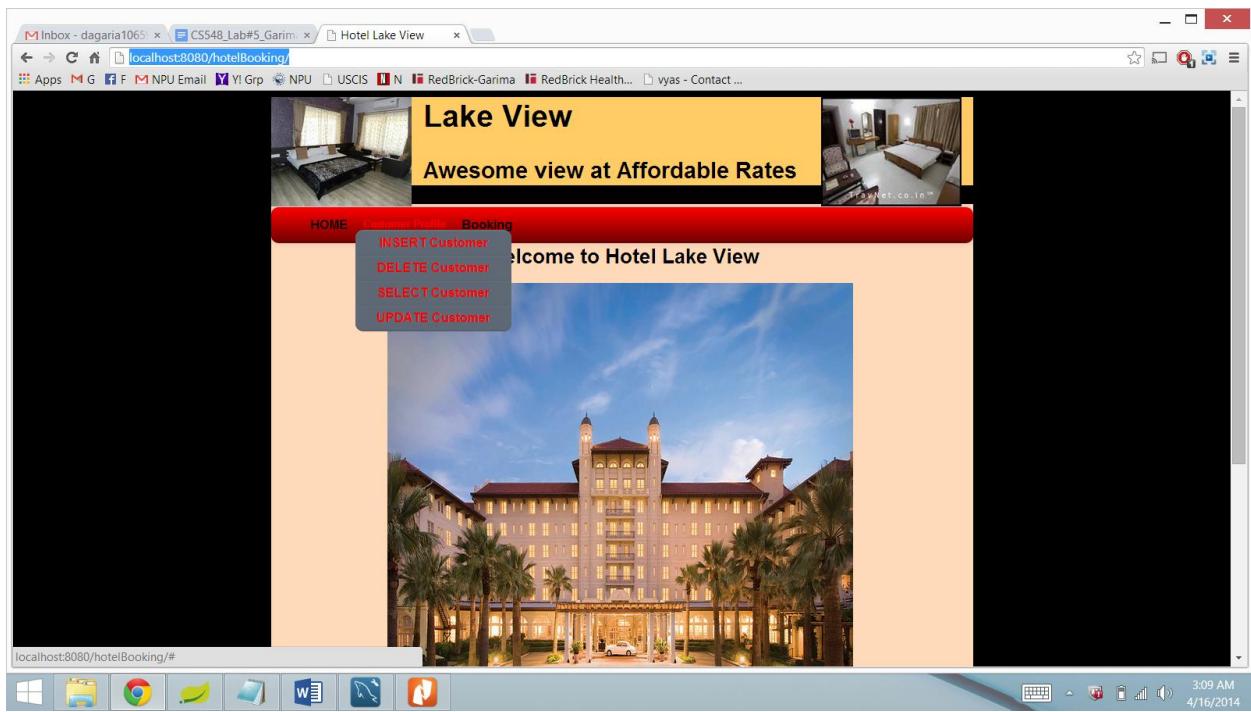
- 121 23:39:04 SELECT * FROM cs548_hotel.card_info 0 row(s) returned 0.016 sec / 0.000 sec
- 122 23:45:45 SELECT * FROM cs548_hotel.room_inventory 0 row(s) returned 0.000 sec / 0.000 sec
- 123 23:49:59 SELECT * FROM cs548_hotel.card_info 0 row(s) returned 0.000 sec / 0.000 sec
- 124 23:51:35 SELECT * FROM cs548_hotel.customer 49 row(s) returned 0.000 sec / 0.000 sec
- 125 23:52:21 SELECT * FROM cs548_hotel.reservation1 7 row(s) returned 0.000 sec / 0.000 sec

Object Info Session

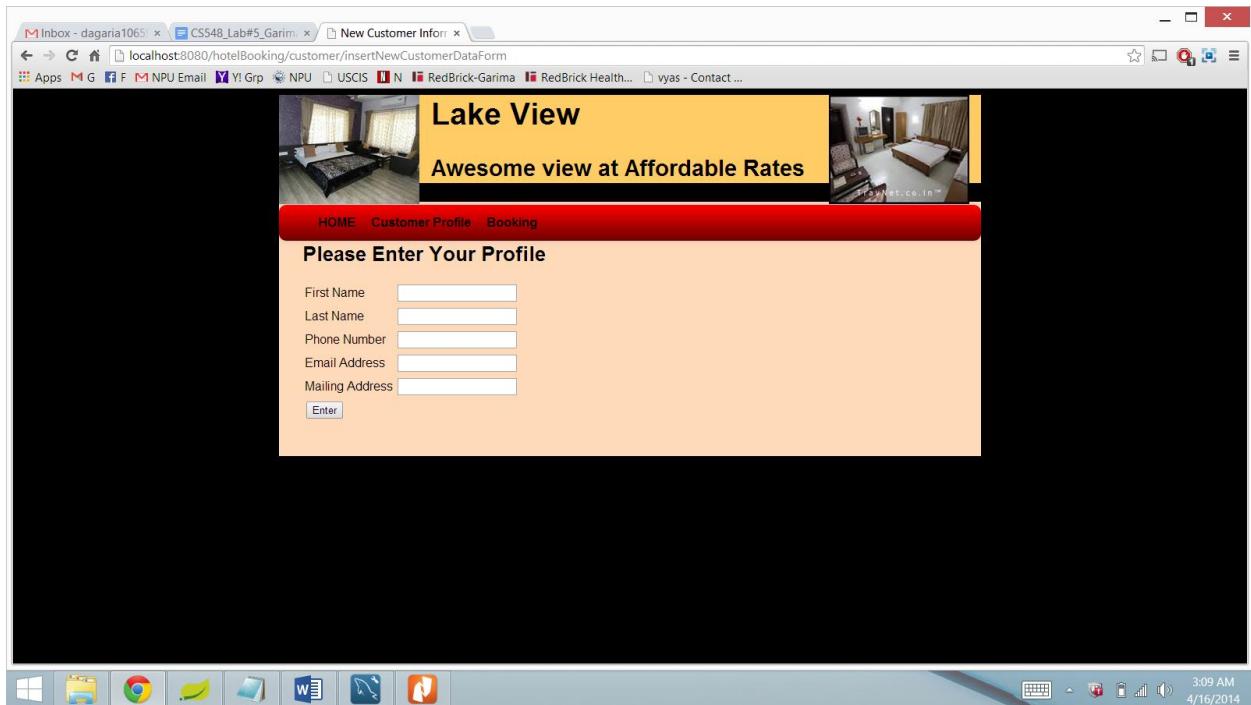
11:52 PM 4/3/2014

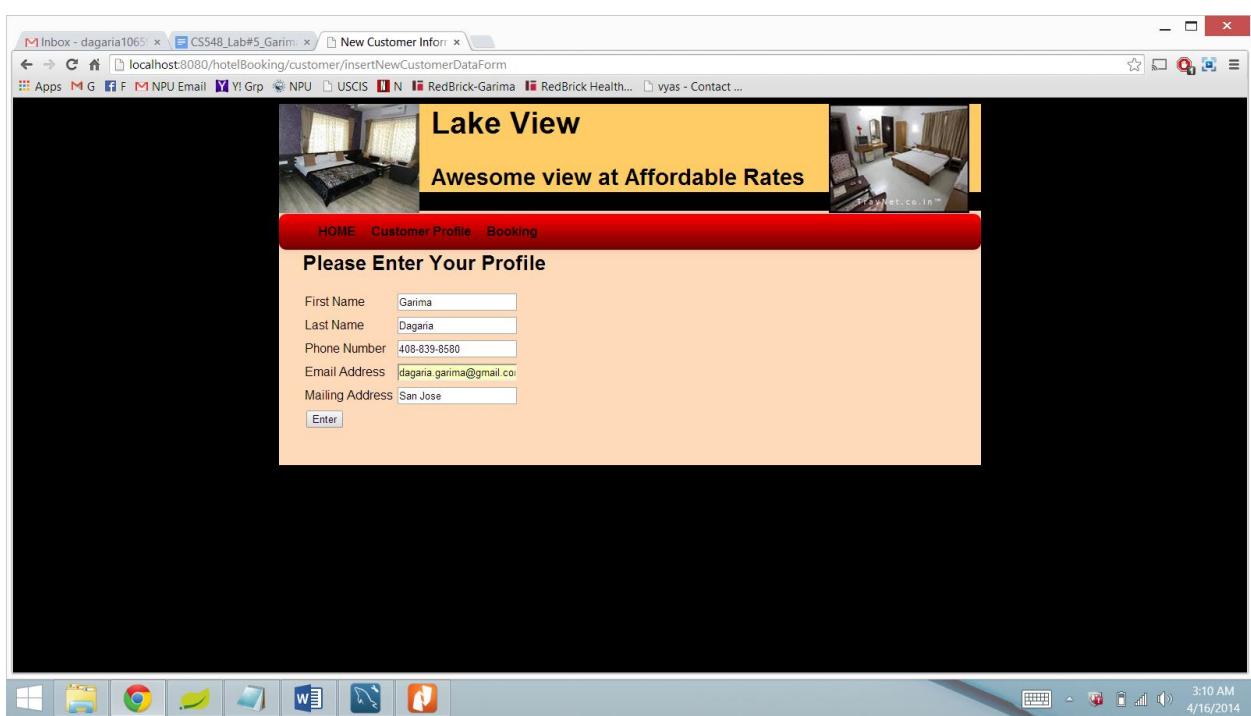
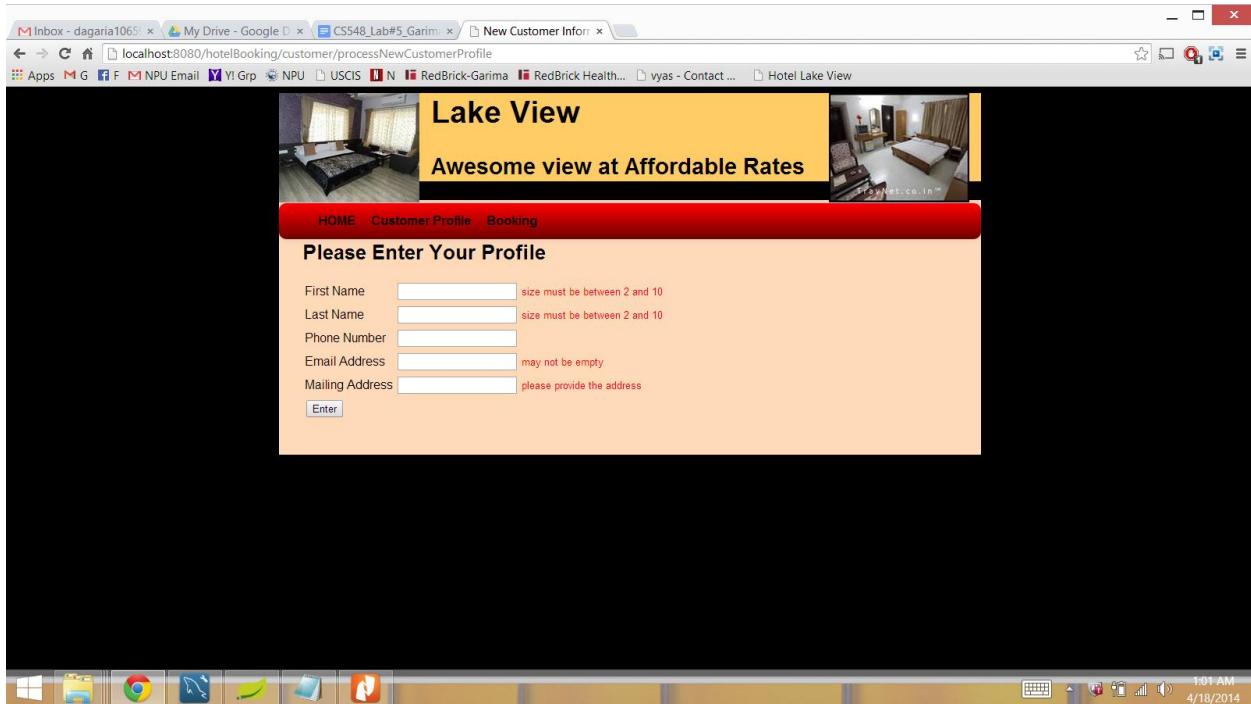
Screenshots of the Web pages running on the browser:



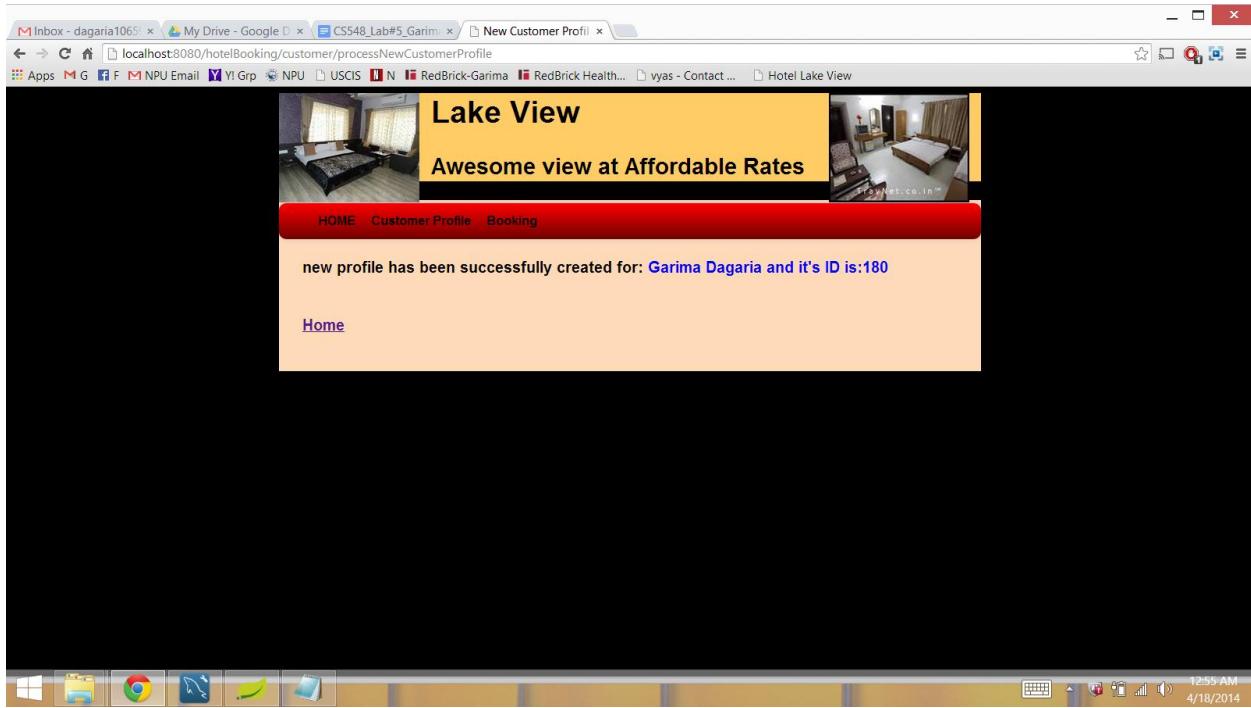


In this web page to create the profile of the Customer(INSERT (CREATE))

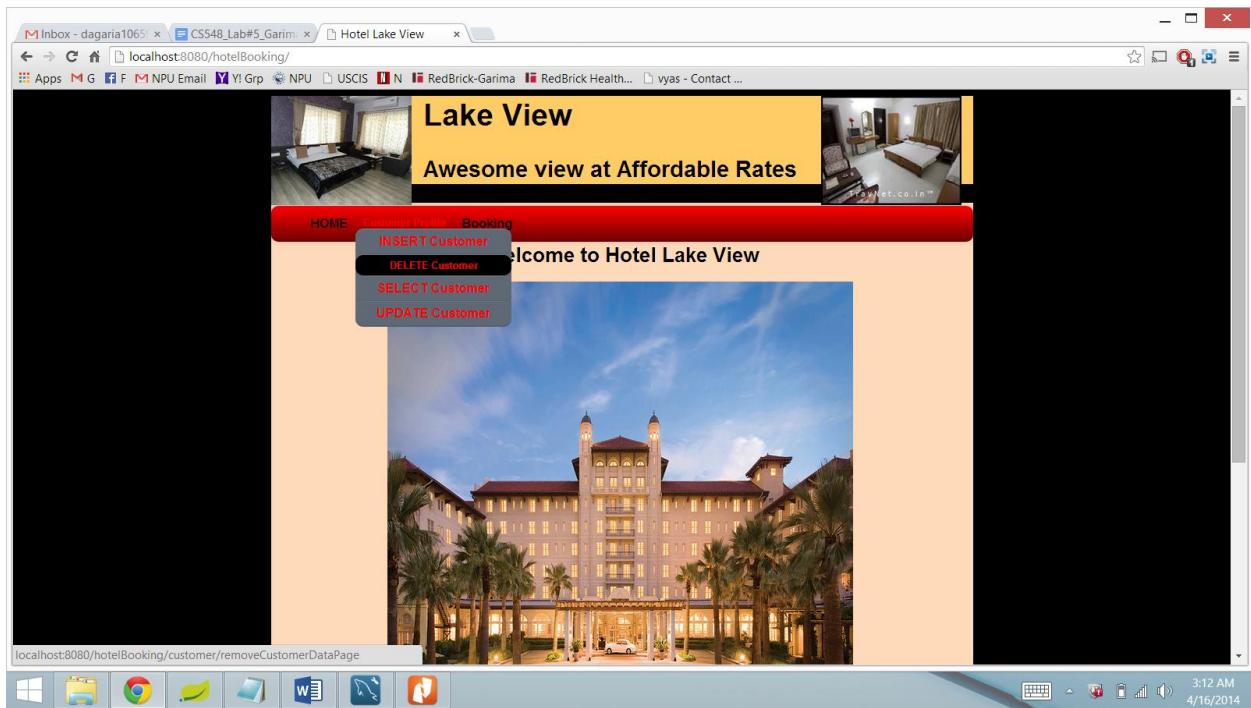


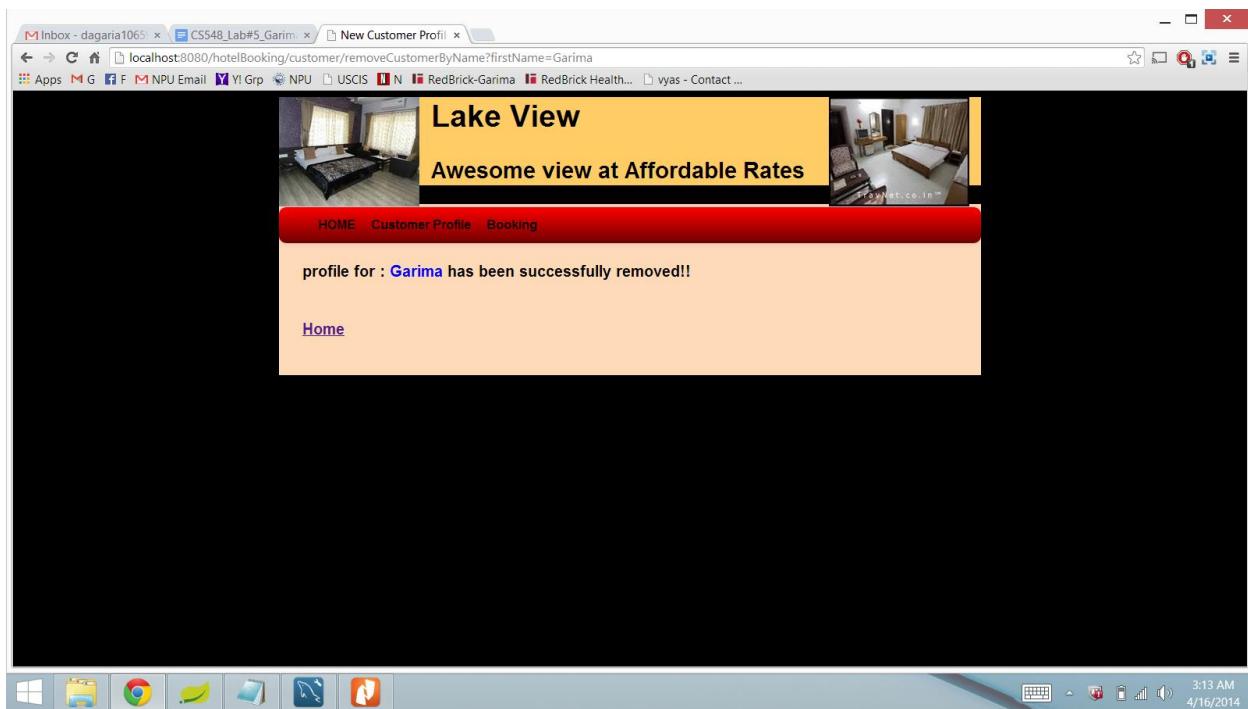
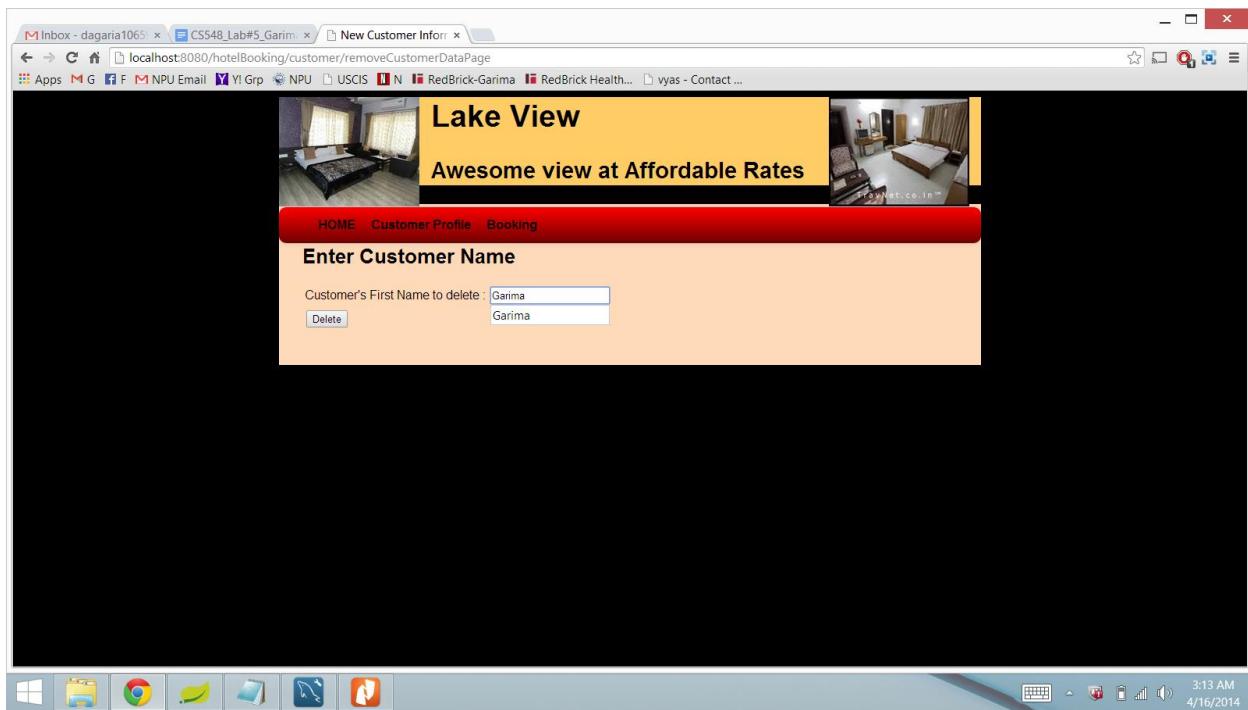


The Customer's profile is successfully Created:

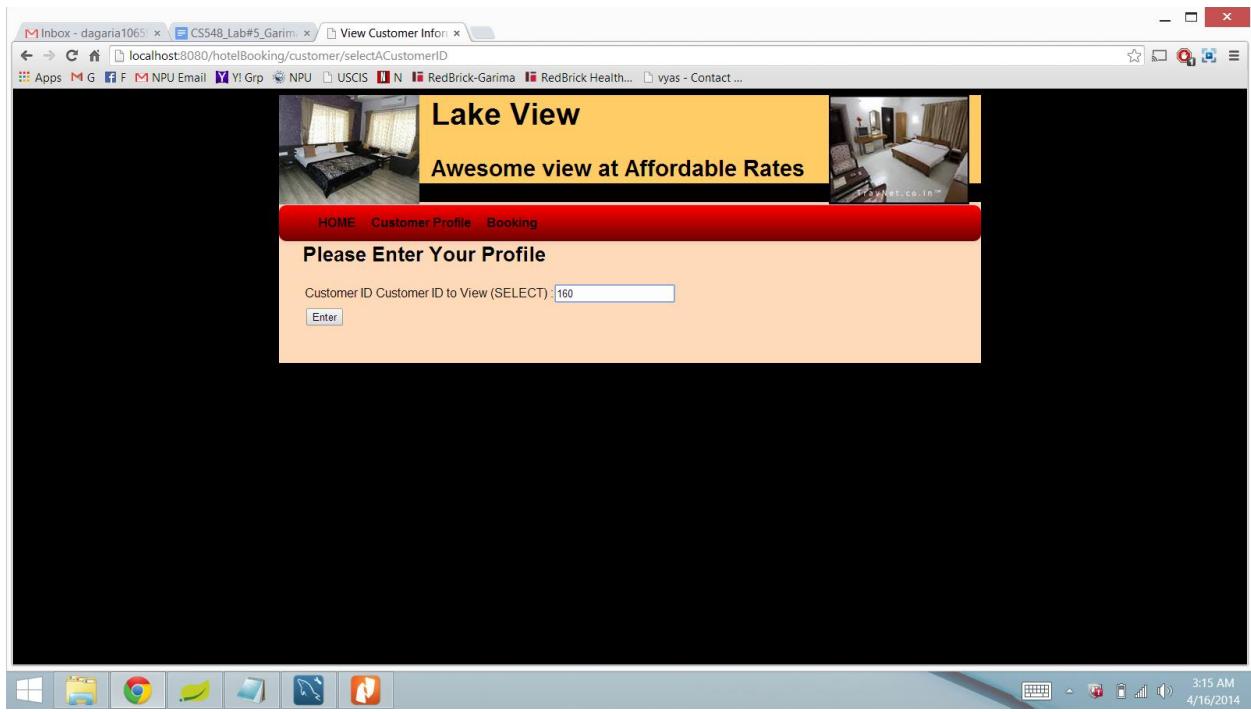
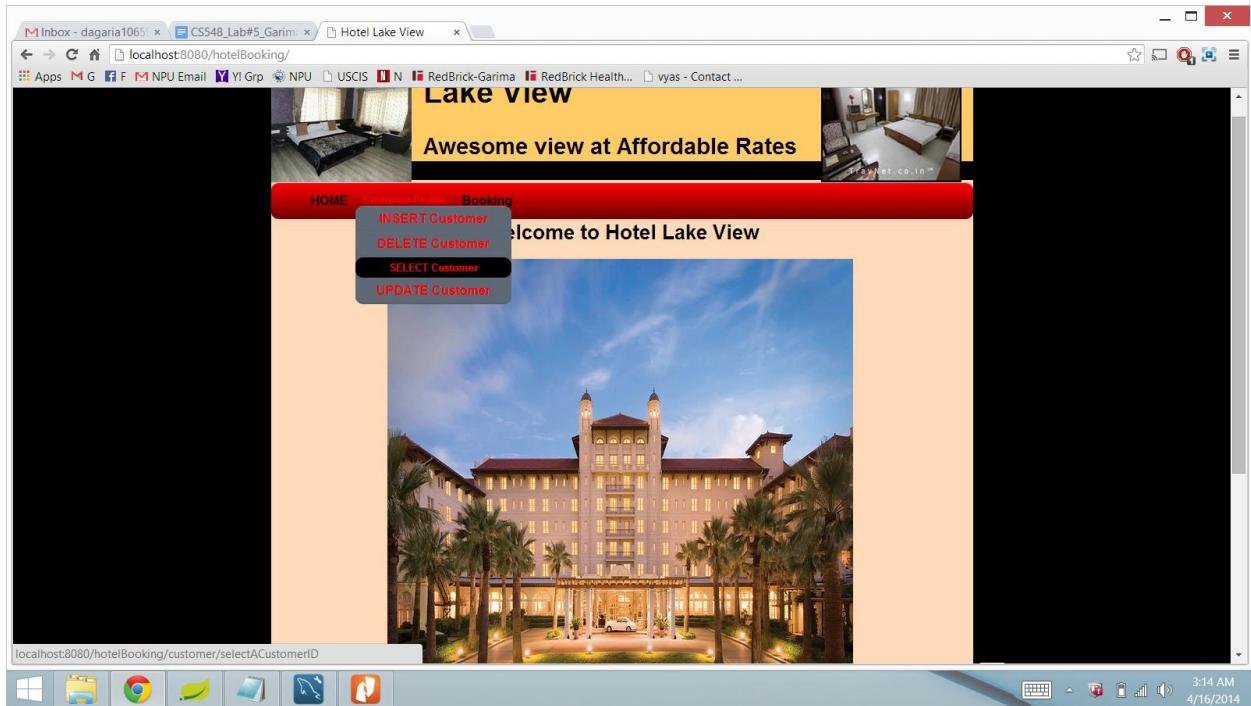


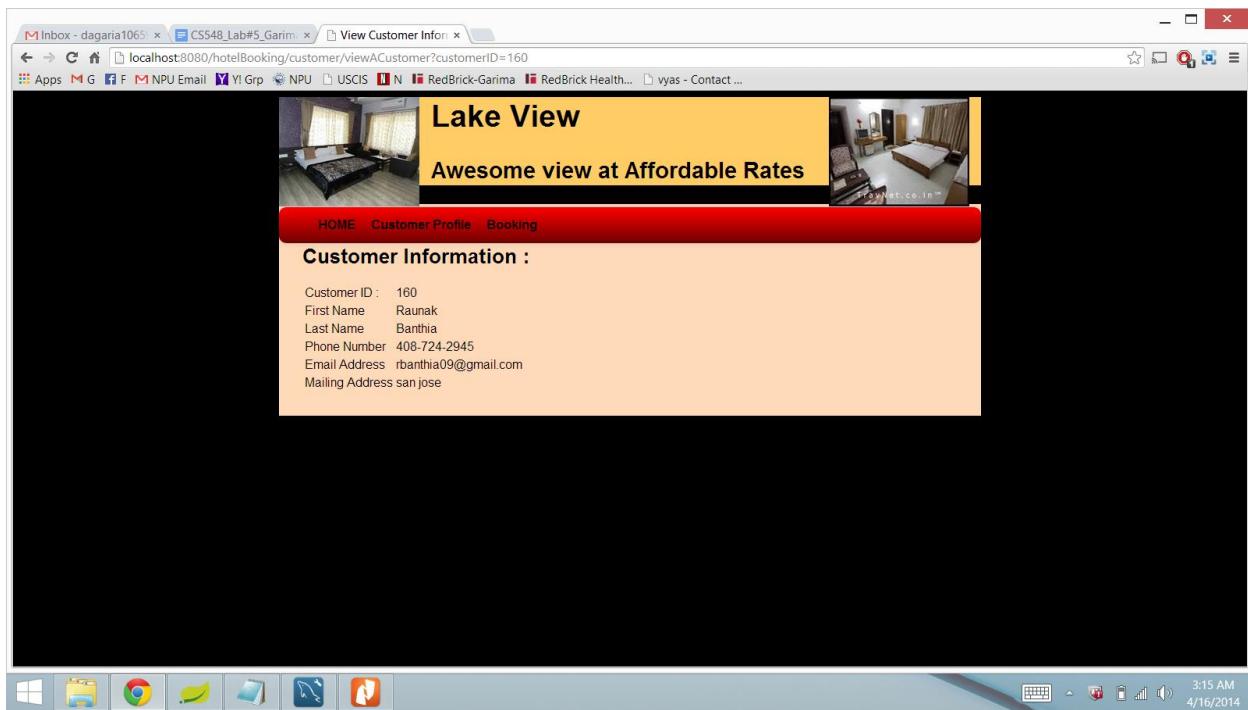
In this web page to delete the profile of the Customer(DELETE)





To view the information of the customer(READ)





In this web page to update the profile of the Customer(UPDATE)

