

CORE JAVA PROJECT

PROJECT TITLE: AIRLINE RESERVATION SYSTEM

AIM:

- To achieve the seat reservation Process without any interruptions.

LANGUAGES:

- JAVA and SQL

SOFTWARE REQUIREMENTS:

- Eclipse for java.
- Mysql for sql.

SYNOPSIS:

In this AIRLINE RESERVATION SYSTEM there 5 main operations are there.
That MAIN OPERATIONS are:

- 1.REGISTRATION -->Passenger can perform that operation.
- 2.LOGIN -->Both admin and passenger can perform that operation.
- 3.SEAT RESERVATION -->Passenger can perform that operation.
- 4.SEAT CANCELLATION -->passenger can perform that operation.
- 5.DISPLAY -->Both the admin and passenger perform the operation.

The control is given for both the admin and also user. Admin can perform two operations one is the fetching information about the passenger who all are reserved the seat and second one is admin can able the seat how many seats are

reserved . In that Passenger side there is five main operations are given. The first one is registration operation it will make permanent account creation. Second one is login when ever you need the seat reservation for that security purpose this module will help. Third one is seat reservation this will take personal information's about that person , flight timing ,trip type, seat type, fare. Forth one is display process after the reservation if passenger need to be see the details about the reservation it will show the information about the seat reservation. Final one is seat cancellation this will also asking the security questions after that it will cancel and also it refund the ticket fare.

INITIAL SETUP:

(IN JAVA):

Mavan Project Name: AirlineReservationSystemProject.

Package Name: com.airline_reservation_project.

Classes Name : 1. AirlineReservationMain

2.DbConnect

3.ReservationProcess

(IN DATABASE):

Creating database in sql (query)

```
mysql> create database airline_reserrvation_system;
```

Database Creation:

```
mysql> use airline_reservation_system;  
Database changed
```

Tables Creation:

```
mysql> show tables;
+-----+
| Tables_in_airline_reservation_system |
+-----+
| admin_account                        |
| admin_registration                   |
| customers_account                    |
| flight_timing_detail                 |
| seat_reservation                     |
| ticket_fare_detail                   |
| user_registration                    |
+-----+
7 rows in set (3.16 sec)
```

AIRLINERESERVATIONMAIN:

ADMIN AND USER MAIN METHOD CODE:

```
/**
*****CORE JAVA PROJECT*****
*
*          CSR CAPGEMINI TRAINING PROJECT
*
*          EDUBRIDGE INDIA PRIVATE LIMITED
*
*          PROJECT TITLE: AIRLINE RESERVATION SYSTEM
*
*          UNDER THE GUIDENCE OF TRAINER MRS.INDRAKA MALLI
*
*                                     @DONE BY LOKESHWARI S
*
* In AIRLINE RESERVATION SYSTEM:
* MAIN OPERATIONS:
* 1.REGISTRATION          -->passenger can perform that operation.
* 2.LOGIN                 -->Both admin and passenger can perform that
operation.
* 3.SEAT RESERVATION      -->Passenger can perform that operation.
* 4.SEAT CANCELLATION     -->passenger can perform that operation.
* 5.DISPLAY               -->Both the admin and passenger perform the
operation.
*
```

```

*/
* AirlineReservationMain class is having two major operations
*this will decides who is going to perform the operation
*1.admin
2.user

case 1:
*If it is admin choice means it gives two choice for admin
*1.Admin Registration-->it allows to create new registration for admin
*2.Admin Login-->it allows to login the admin account
*
*case 2:
*If it is user choice means it gives two choice for user
*1.User Registration-->it allows to registration for user
*2.User Login-->it allows to login the user account
*/
package com.airline_reservation_project;
import java.util.Scanner;
//main class for airline reservation
public class AirlineReservationMain
{
//get input from user
static Scanner sc=new Scanner(System.in);
//main method
public static void main(String[] args)
{
while(true)
{

System.out.println("*****WELCOME TO AIR INDIA AIRLINE RESERVATION*****");

```

```
System.out.println("Enter Your Choice:");
System.out.println("1.ADMIN'S PROCESS");
System.out.println("2.USER'S PROCESS");
System.out.println("3.EXIT");
//getting choice from user
int choice=sc.nextInt();
switch(choice)
{
case 1:System.out.println("You Are Choose ADMIN'S PROCESS");
while(true)
{
System.out.println("Enter Your Choice:");
System.out.println("1.ADMIN LOGIN");
System.out.println("2.EXIT");
int ch=sc.nextInt();
switch(ch)
{
case 1:System.out.println("You Are Choose ADMIN LOGIN Process");
//perform the login operation
ReservationProcess.adminLogin();
break;
case 2:
break;

default:System.out.println("INVALID INPUT");
}
//for repetition purpose
System.out.println("Do You Want to Continue the ADMIN LOGIN yes/no");
//getting input
String input=sc.next();
```

```
if(input.equalsIgnoreCase("no"))//comparing input with the condition
{
break;
}
}
break;
case 2:System.out.println("You Are Choose ADMIN'S PROCESS");
while(true)
{
System.out.println("Enter Your Choice:");
System.out.println("1.USER REGISTRATION");
System.out.println("2.USER LOGIN");
System.out.println("3.EXIT");
int ch=sc.nextInt();
switch(ch)
{
case 1:System.out.println("You Are Choose USER REGISTRATION Process");
//perform the registration operation
ReservationProcess.passengerRegistraion();
break;
case 2:System.out.println("You Are Choose USER LOGIN Process");
//perform the login operation
ReservationProcess.passengerLogin();
break;
case 3:
break;
default:System.out.println("INVALID INPUT");
}
//for repetition purpose
```

```
System.out.println("Do You Want To Continue the USER REGISTRATION or USER  
LOGIN Process yes/no");  
  
//getting input  
String input=sc.next();  
if(input.equalsIgnoreCase("no"))//comparing input with the condition  
{  
break;  
}  
break;  
}  
break;  
  
case 3://this case for exit process  
break;  
default:System.out.println("INVALID INPUT");}  
  
//for repetition purpose  
System.out.println("Do You Want To Continue the ADMIN or USER Process  
yes/no");  
  
//getting input  
String input=sc.next();  
if(input.equalsIgnoreCase("no"))//comparing input with the condition  
{  
break;  
}break;  
}  
}  
}  
}
```

Database table creation:

Admin registration table structure:

```
mysql> desc admin_registration;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ad_emailid | varchar(35) | NO   | PRI | NULL    |       |
| ad_name    | varchar(15) | NO   |     | NULL    |       |
| ad_password| varchar(15) | NO   |     | NULL    |       |
| ad_repassword| varchar(15) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.11 sec)
```

User registration table structure:

```
mysql> desc user_registration;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| pass_emailid | varchar(35) | NO   | PRI | NULL    |       |
| pass_name    | varchar(15) | NO   |     | NULL    |       |
| password     | varchar(15) | NO   |     | NULL    |       |
| repassword   | varchar(15) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.26 sec)
```

DATABASE CONNECTION CLASS:

DATA BASE CODE:

/**

* Data base connection class-> it makes a connections between the spring tool
shoot and mysql

*

* 1.Driver->That implements the java databases connectivity (JDBC)
API

*

* 2.url->data base management system jdbc driver uses to connect to a
database

*

- * 3.username-> user name of the database
- *
- * 4.password->pass word for the databases
- *
- * 5.forName()-> method is loading the driver dynamically loads a java class at runtime
- *
- * 6.DriverManger->Is that class making connection to database by passing arguments as a url ,username and password.
- *
- */

```
package com.airline_reservation_project;
import java.sql.Connection;
import java.sql.DriverManager;
public class DbConnect
{
//driver
static String driver="com.mysql.cj.jdbc.Driver";
//here the databases name is AIRLINE_RESERRVATION_SYSTEM
//port number is 3306
static String url="jdbc:mysql://localhost:3306/airline_reservation_system";
//my sql username
static String username="root";
//my sql password
static String password="root";
static Connection con;
public static Connection getconnection()
{
try
{
```

```
//loading driver
Class.forName(driver);
//using this arguments building the connection between java and sql
con=DriverManager.getConnection(url, username, password);
}catch(Exception e)
{
e.printStackTrace();
}return con;}
}
```

REGISTRATION PROCESSES:

REGISTRATION CODE:

FOR ADMIN:

- 1.The admin registration is done by back end process. Reason is only one admin for the whole application that why the admin registration is created by backed process.
- 2.This Admin Registration also contain the email id username and password.
- 3.There is no option is given to create the admin registration process at front end.

Database output:

Admin registration Record is inserted in database:

```
mysql> select * from admin_registration;
+-----+-----+-----+-----+
| ad_emailid | ad_name | ad_password | ad_repassword |
+-----+-----+-----+-----+
| lokeshwari@gmail.com | lokeshwari | lokesh99 | lokesh99 |
+-----+-----+-----+-----+
1 row in set (0.63 sec)
```

User Registration CODE:

```
/**
 * User registration or passenger registration
 *
 * Registration Modules-> passengerRegistraion() ->It takes informations from
passenger and saves in a database.
 *
 * ->first it checks the registration is already done by the same mail id or
not.
 * if it is not then ask further information regarding the registration...
 *
 * ->User name and password...while setting password confirmation also done
 */
```

//USER REGISTRATION PROCESS

```
public static void passengerRegistraion()
{
try
{
//Getting connection
con=DbConnect.getConnection();
//fetching email id from user registration
String selectemail="select * from user_registration where pass_emailid=?";
pst=con.prepareStatement(selectemail);
System.out.println("Enter Your Email id");
email=sc.next();
pst.setString(1, email);
rst=pst.executeQuery();
if(!rst.next())
{
System.out.println("Enter Your User Name");
```

```
username=sc.next();
System.out.println("Enter Your Pass Word");
password=sc.next();
while(true)
{
System.out.println("Re Enter the Pass Word");
String conformpass=sc.next();
//Checking both passwords are same or not
if(conformpass.equals(password))
{
String regsql="insert into user_registration values(?,?,?,?)";
pst=con.prepareStatement(regsql);
pst.setString(1, email);
pst.setString(2, username);
pst.setString(3, password);
pst.setString(4, conformpass);
int i=pst.executeUpdate();
if(i>0)
{
System.out.println("REGISTERED SUCCESSFULLY...");
System.out.println("THANK YOU FOR YOUR REGISTRATION...");
break;
}}
else{
System.out.println("RECHECK the re entered pass word");
}}//while loop closing
}//if statement closing
else
{
System.out.println("Already the Registration done by SAME EMAIL ID");
```

```

}
}catch (Exception e)
{
e.printStackTrace();}}

```

Java output:

User Registration output:

```

*****WELCOME TO AIR INDIA AIRLINE RESERVATION*****
Enter Your Choice:
1.ADMIN'S PROCESS
2.USER'S PROCESS
3.EXIT
2
You Are Choose ADMIN'S PROCESS
Enter Your Choice:
1.USER REGISTRATION
2.USER LOGIN
3.EXIT
1
You Are Choose USER REGISTRATION Process
Enter Your Email id
latha@gmail.com
Enter Your User Name
latha
Enter Your Pass Word
latha04
Re Enter the Pass Word
latha04
REGISTERED SUCCESSFULLY...
THANK YOU FOR YOUR REGISTRATION...
Do You Want To Continue the USER REGISTRATION or USER LOGIN Process yes/no

```

Database output:

User registration Record is inserted in database:

```

mysql> select * from user_registration;
+-----+-----+-----+-----+
| pass_emailid | pass_name | password | repassword |
+-----+-----+-----+-----+
| deepa@gmail.com | deepa | deep0987 | deep0987 |
| kanishka@gmail.com | kanishka | kani8989 | kani8989 |
| keerthi@gmail.com | keerthi | kee00 | kee00 |
| latha@gmail.com | latha | latha04 | latha04 |
| thisha@gmail.com | thisha | thisha9934 | thisha9934 |
+-----+-----+-----+-----+
5 rows in set (0.63 sec)

```

LOGIN:

ADMIN LOGIN CODE:

/*

* In this admin login process the back end we created one user name and password for the admin

*

* That user name and pass word can be used to login admin login module

*

* If the login process get successful means admin can perform display operations

*

* 1.display single record -> it gives information about single seat number

*

* 2.display seatreserved-> it gives result about how many seats are reserved

*

*/

//LOGIN PROCESS FOR ADMIN

public static void adminLogin()

{

try

{

con=DbConnect.getconnection();

//checking user name and pass word

while(true)

{

System.out.println("Enter The UserName");

username=sc.next();

System.out.println("Enter The PassWord");

password=sc.next();

```

String checkusername="select* from admin_registration where ad_name=?";
pst=con.prepareStatement(checkusername);
pst.setString(1,username);
rst=pst.executeQuery();
if(rst.next())
{
String checkpass="select * from admin_registration where ad_password =? ";
pst=con.prepareStatement(checkpass);
pst.setString(1,password);
rst=pst.executeQuery();
if(rst.next())
{

System.out.println("Login successfull");
while(true)
{
System.out.println("1.diplay single record");
System.out.println("2.display seat reserved");
//choice to do the seat reservation or cancellation process
System.out.println("Enter Your choice...");
int ch1=sc.nextInt();
switch(ch1)
{
case 1:System.out.println("Your choosen display single records process");
//perform the seat reservation operation
ReservationProcess.displayRervation();
break;
case 2:System.out.println("Your choosen seat reserved process");
//perform the seat canceling operation

```

```
ReservationProcess.reservationState();
break;
default: System.out.println("Invalid Choice");

}
System.out.println("Do you want to continue the display process yes/no");
String in=sc.next();
if(in.equalsIgnoreCase("no"))
{
break;
}

}
}
else
{
System.out.println("Invalid PassWord");
break;
}
}
else
{
System.out.println("Invalid User Name");

}
break;

}}catch(Exception e)
{
e.printStackTrace();
```



```
}  
}
```

Admin Login java output:

```
*****WELCOME TO AIR INDIA AIRLINE RESERVATION*****  
Enter Your Choice:  
1.ADMIN'S PROCESS  
2.USER'S PROCESS  
3.EXIT  
1  
You Are Choose ADMIN'S PROCESS  
Enter Your Choice:  
1.ADMIN REGISTRATION  
2.ADMIN LOGIN  
3.EXIT  
2  
You Are Choose ADMIN LOGIN Process  
Enter The UserName  
lokeshwari  
Enter The PassWord  
lokesh99  
Login successfull
```

PASSENGER LOGIN CODE:

```
/*  
  
* In this passenger login process the back end we created one user name and  
password for the user  
  
*  
  
* That user name and pass word can be used to login user login module  
  
*  
  
* If the login process get successful means user can perform operations  
* operation are seat reservation,display and cancellation  
  
*  
  
* 1.seat reservation-> this module is used to reserved the seat  
  
*  
  
* 2.seat cancellation-> this module is used to canceling the reserved seat  
  
*  
*/
```

```

//LOGIN FOR PASSANGER
public static void passengerLogin()
{
try
{
con=DbConnect.getconnection();
//checking user name and pass word
while(true)
{
System.out.println("Enter The UserName");
username=sc.next();
System.out.println("Enter The PassWord");
password=sc.next();

String checkusername="select* from user_registration where pass_name=?";
pst=con.prepareStatement(checkusername);
pst.setString(1,username);
rst=pst.executeQuery();
if(rst.next())
{
String checkpass="select * from user_registration where password =? ";
pst=con.prepareStatement(checkpass);
pst.setString(1,password);
rst=pst.executeQuery();
if(rst.next())
{
System.out.println("Login successfull");
while(true)
{
System.out.println("1.Seat Reservation");

```

```
System.out.println("2.Seat Cancellation");
System.out.println("3.Exit");
//choice to do the seat reservation or cancellation process
System.out.println("Enter Your choice...");
int ch1=sc.nextInt();
switch(ch1)
{
case 1:System.out.println("Your choosen Seat Reservation Process");
//perform the seat reservation operation
ReservationProcess.seatReservation();
break;
case 2:System.out.println("Your choosen Seat Cancellation Process");
//perform the seat canceling operation
ReservationProcess.seatCancellation();
break;
case 3:
break;
default: System.out.println("Invalid Choice");
break;
}
System.out.println("Do you want to continue the seat reservation or seat
cancellation yes/no");
String in=sc.next();
if(in.equalsIgnoreCase("no"))
{
break;
}
Break;}}
}
else{
```

```

System.out.println("Invalid User Name");

System.out.println("If You Are Already REGISTERED Then Go for once more
chance");

System.out.println("Otherwise Go for REGISTRATION");

System.out.println("Do you want to go for ONE MORE CHANCE yes/no");

//ALREADY REGISTERED THEN GIVING ONE MORE CHANCE

String input=sc.next();

if(input.equalsIgnoreCase("no"))//comparing input with the condition
{
break;
}}break;}

}catch(Exception e)
{
e.printStackTrace();
}
}

```

User Login java output:

```

*****WELCOME TO AIR INDIA AIRLINE RESERVATION*****
Enter Your Choice:
1.ADMIN'S PROCESS
2.USER'S PROCESS
3.EXIT
2
You Are Choose ADMIN'S PROCESS
Enter Your Choice:
1.USER REGISTRATION
2.USER LOGIN
3.EXIT
2
You Are Choose USER LOGIN Process
Enter The UserName
latha
Enter The PassWord
latha04
Login successfull

```

RESERVATION PROCESS:

ATTRIBUTES:

//these are the static variables

```
private static Connection con;
private static Scanner sc=new Scanner(System.in);
private static PreparedStatement pst;
private static ResultSet rst;
private static String email;
private static String username;
private static String password;
private static int seatno;
private static int ch;
private static int t;
private static int s;
private static String tripname;
private static String departuretime;
private static String arrivaltime;
private static String seattype;
private static long ticketamount;
private static long inventoryfare;
private static String tickettype;
private static long totalamount;
private static long accno;
private static int pinno;
```

SEAT RESERVATION CODE:

//FOR USER PURPOSE SEAT RESERVATION PROCESS

/**

```
* In this seat reservation process there are trip choosing option,timing
option,seat type,ticket type,ticket class,luggage weight,payment
* these are the key modules are working in side this method.
*
* while reservation process it also takes the personal information about the
passenger.
*
* Main thing in this process choosing the seat no it shows how many seats are
reserved and the seat numbers also.
*/
```

```
public static void seatReservation()
{
try
{
int totalNoOfSeats=50;
int avalseatcount=50;
con=DbConnect.getConnection();
String com="select seatno from seat_reservation order by seatno";
pst=con.prepareStatement(com);
rst=pst.executeQuery();

while(rst.next())
{
System.out.print(rst.getInt(1)+" ");
}

System.out.println("Already These Seats are RESERVED");
String count="select count(*) from seat_reservation";
pst=con.prepareStatement(count);
rst=pst.executeQuery();
```

```

while(rst.next())
{
int reservedseat=rst.getInt(1);

/**
* selecting seat no is depends on passenger convenient
* previously it shows how many seats are reserved and the seat numbers also
*
* If may be the passenger enter the already reserved seat means
* it shows that seat number is already reserved choose other seat number and
also gives one more change to the passenger
*
* seat number is okay means it asking personal details about the passenger.
*/

```

//SELECTING SEAT NUMBER

```

while(true) {
System.out.println("Total number of seats"+totalNoOfSeats);
System.out.println("available seat count"+(avalseatcount-reservedseat));
System.out.println("Enter The Seat No");
seatno=sc.nextInt();
String sql1="select * from seat_reservation where seatno=?";
pst=con.prepareStatement(sql1);
pst.setInt(1, seatno);
rst=pst.executeQuery();
//entering personal details
if(!rst.next())
{   System.out.println("Enter Passanger Name");
String name=sc.next();
System.out.println("Enter Your MobileNo");

```

```

String mobno=sc.next();
System.out.println("Enter Your full Address");
System.out.println("Door No");
String doorno=sc.next();
sc.nextLine();
System.out.println("Enter the Street Name");
String streetname=sc.nextLine();
System.out.println("Enter Your Location");
String location=sc.nextLine();
System.out.println("Enter the Pincode");
int pincode=sc.nextInt();
//SELECTING TRIP PLAN
/**
 * Here next to personal details the airline having some different kind of
 * trip plans
 *
 * This is fully depends on the passenger requirements
 * what ever the choice is given from the passenger it will takes.
 *
 * If suppose the passenger choice is invalid means it shows invalid choice
 * and it gives one more chance for the trip plan choosing process
 *
 */

while(true)
{
System.out.println("Which Trip you want to Choose");
System.out.println("1.CHENNAI TO BANGALORE");
System.out.println("2.CHENNAI TO HYDRABED");
System.out.println("3.CHENNAI TO PUNE");

```



```
ch=sc.nextInt();
if(ch<4)
{
switch(ch)
{
case 1:System.out.println("Your selected Chennai to Bangalore option");
tripname="CHENNAI TO BANGALORE";
break;
case 2:System.out.println("your selected Chennai to hydrabed option");
tripname="CHENNAI TO HYDRABED";
break;
case 3:System.out.println("your selected Chennai to Pune option");
tripname="CHENNAI TO PUNE";
break;

}break;
}
else
{
System.out.println("INVALID OPTION");
}
}

//SELECTING TIMING

/**
 * After the trip plan next step is choosing the timing.
 *
 * Generally the airline having some different kind of timing .
 *
 * This also what ever the passenger convenient they will choose the option.
```

```

* If the passenger chosen the option it will takes.
*
*If may the option is invalid it shows invalid option then
* gives one more chance to go for choosing the timing option
*/
while(true) {
System.out.println("Select which Time you Want..");

System.out.println("1.DEPATURE TIME is 10.00AM and ARRIVAL TIME is 2.00PM");
System.out.println("2.DEPATURE TIME is 11.00AM and ARRIVAL TIME is 3.10PM");
System.out.println("3.DEPATURE TIME is 11.30AM and ARRIVAL TIME is 4.45PM");
t=sc.nextInt();
if(t<4)
{
switch(t)
{
case 1:System.out.println("your Depature time is 10.00AM ");
depaturetime="10:00:00 AM";
System.out.println("your Depature time is 10.00AM");
arrivaltime="02:00:00 PM";

break;

case 2:System.out.println("your DEPATURE TIME is 11.00AM and ARRIVAL TIME is 3.10PM");
depaturetime="11:00:00 AM";
arrivaltime="03:10:00 PM";
break;

case 3:System.out.println("your DEPATURE TIME is 11.30AM and ARRIVAL TIME is 4.45PM ");
depaturetime="11:30:00 AM";

```

```

arrivaltime="04:45:00 PM";
break;

}break;
}
else
{
System.out.println("invalid option...");

}}
//SELECTING SEAT TYPE
/**
 * Next to timing option the seat type option is given.
 *
 * Airline having two king of seats options
 *
 * This one also the passenger requirement if the passenger
 * chosen the option it will taken for the further actions
 *
 * If the passenger chosen the invalid option in the sense
 * it will give a chance to choose the seat type option.
 */

while(true) {
System.out.println("select which type of seat you want");
System.out.println("1.AISLE SEAT");
System.out.println("2.WINDOW SEAT");
s=sc.nextInt();
if(s<3)
{

```

```

switch(s){
case 1:System.out.println("your selected the type is AISLE SEAT (A and F
rows)");
seattype="aisel type";
break;

case 2:System.out.println("your selected the type is WINDOW SEAT(C and D
rows)");
seattype="window type";
break;
}
break;
}
else
{
System.out.println("invalid option...");}}
//SELECTING TICKET TYPE
/**
 * Next to seat type option the ticket type is given to the passengers.
 *
 * This option is also depends on the passenger needs.If the passenger chosen
the option
 * it will taken for the further processes.
 *
 * If the passenger chosen the invalid option in the sense
 * it will give a chance to choose the seat type option.
 */
while(true)
{

System.out.println("1.FIRST CLASS ticket price is 9000");

```

```

System.out.println("2.NORMAL CLASS ticket price is 4000");
System.out.println("enter your choice");
int ch=sc.nextInt();
if(ch<3)
{
switch(ch)
{
case 1:System.out.println("your selected FIRST CLASS ticket");
tickettype="first class";
ticketamount=6000;
break;
case 2:System.out.println("your selected NORMAL CLASS ticket");
tickettype="normal class";
ticketamount=4000;
break;
}break;
}}
//SELECTING LUGGAGE WEIGHT
/**
 * Next to ticket type option the luggage weight options is given to the
passengers.
 *
 * This option is more important comparing to other transport types this also
giving the options to the passengers.
 * If the passenger chosen the option it will taken for the further
processes.
 *
 * If the passenger chosen the invalid option in the sense
 * it will give a chance to choose the seat type option.
 */
while(true)

```

```

{

System.out.println("1.Inventory spare is 8kg then fare is 1000");
System.out.println("2.Inventory spare is 3kg then fare is 500");
System.out.println("enter your choice");
int fare=sc.nextInt();
if(fare<3)
{
switch(fare)
{
case 1:System.out.println("your selected 8kg");

inventoryfare=1000;
break;
case 2:System.out.println("your selected 3kg");
inventoryfare =500;
break;
}
break;}
}

//PAYMENT PROCESS

/**
 * The payment process also very simple and also securely handled.
 *
 * It also having checking processes taking informations from the passengers
account number
 * and pin it two data's are correct then it do the payment process
 *

```

* Here the account number or pin number is invalid means it gives the alert and gives one more chances.

*

* May be both are correct but the balance is insufficient means it gives that insufficient message also.

*

* If the payment is done then only it reserve that seat otherwise it not takes all the information before the payment option.

*/

```
while(true)
```

```
{
```

```
totalamount=ticketamount+inventoryfare;
```

```
System.out.println("GO TO PAYMENT");
```

```
System.out.println("Enter your Account Number");
```

```
accno=sc.nextLong();
```

```
System.out.println("Enter your Pin Number");
```

```
pinno=sc.nextInt();
```

```
String transacc="select accno from customers_account where accno=?";
```

```
pst=con.prepareStatement(transacc);
```

```
pst.setLong(1, accno);
```

```
rst=pst.executeQuery();
```

```
if(rst.next())
```

```
{
```

```
String transpin="select pinno from customers_account where pinno=?";
```

```
pst=con.prepareStatement(transpin);
```

```
pst.setLong(1, pinno);
```

```
rst=pst.executeQuery();
```

```
if(rst.next())
```

```
{
```

```
String ins="insert into seat_reservation values(?,?,?,?,?,?,?)";
```

```

pst=con.prepareStatement(ins);
pst.setInt(1, seatno);
pst.setString(2, name);
pst.setString(3, mobno);
pst.setString(4, doorno);
pst.setString(5, streetname);
pst.setString(6, location);
pst.setInt(7, pincode);
int i=pst.executeUpdate();
if(i>0)
{
String seatch="insert into flight_timing_detail values(?,?,?,?,?,?,?,?)";
pst=con.prepareStatement(seatch);
pst.setInt(1, ch);
pst.setString(2, tripname);
pst.setInt(3, t);
pst.setString(4, depaturetime);
pst.setString(5, arrivaltime);
pst.setInt(6, s);
pst.setString(7, seatttype);
pst.setInt(8, seatno);
int p=pst.executeUpdate();
if(p>0)
{
String fare="insert into ticket_fare_detail values(?,?,?,?,?)";
pst=con.prepareStatement(fare);
pst.setString(1, tickettype);
pst.setLong(2, ticketamount);
pst.setLong(3, inventoryfare);
pst.setLong(4, totalamount);

```



```
pst.setInt(5, seatno);
int k=pst.executeUpdate();
if(k>0)
{
String bal="select balance from customers_account where (select balance from
customers_account where accno=?)>0";
pst=con.prepareStatement(bal);
pst.setLong(1,accno);

rst=pst.executeQuery();
if(rst.next())
{

String withdraw="update customers_account set balance=balance-(select
totalfare from ticket_fare_detail where seatno=?) where accno=? ";
pst=con.prepareStatement(withdraw);
pst.setLong(1,seatno);
pst.setLong(2,accno);
int t=pst.executeUpdate();
if(t>0)
{

String deposit="insert into admin_account values(?,?)";
pst=con.prepareStatement(deposit);
pst.setLong(1, totalamount);
pst.setInt(2, seatno);
int l=pst.executeUpdate();
if(l>0)
{
System.out.println("your seat is reserved");
```

```
System.out.println("Do you want to See the Whole details about your  
reservation yes/no");  
String m=sc.next();  
if(m.equalsIgnoreCase("yes"))  
{  
  
ReservationProcess.displayReservationDetails();  
totalNoOfSeats=totalNoOfSeats-1;  
break;  
}  
else  
{  
break;  
}  
}  
break;  
}}  
else  
{  
System.out.println("Insufficient balance");  
String delfare="delete from ticket_fare_detail where seatno=?";  
pst=con.prepareStatement(delfare);  
pst.setInt(1, seatno);  
int df=pst.executeUpdate();  
if(df>0)  
{  
String deltime="delete from flight_timing_detail where seatno=?";  
pst=con.prepareStatement(deltime);  
pst.setInt(1, seatno);  
int dt=pst.executeUpdate();
```

```
if(dt>0)
{
String delseat="delete from seat_reservation where seatno=?";
pst=con.prepareStatement(delseat);
pst.setInt(1, seatno);
int ds=pst.executeUpdate();
if(ds>0)
{
System.out.println("check your balance");
break;
}
}

}
}}}}}
}else
{
System.out.println("invalid account number or pin number");

}
}
}else
{
System.out.println("This seat no is already reserved... ");

}
avalseatcount=totalNoOfSeats-1;
break;
}
```

```
}  
}catch (Exception e) {  
e.printStackTrace();}}
```

Seat reservation java output:

```
*****WELCOME TO AIR INDIA AIRLINE RESERVATION*****  
Enter Your Choice:  
1.ADMIN'S PROCESS  
2.USER'S PROCESS  
3.EXIT  
2  
You Are Choose ADMIN'S PROCESS  
Enter Your Choice:  
1.USER REGISTRATION  
2.USER LOGIN  
3.EXIT  
2  
You Are Choose USER LOGIN Process  
Enter The UserName  
latha  
Enter The PassWord  
latha04  
Login successfull  
3.Seat Reservation  
4.Seat Cancellation  
5.Exit  
Enter Your choice...  
3  
Your choosen Seat Reservation Process  
1 2 6 9 Already These Seats are RESERVED  
Total number of seats50  
available seat count46  
Enter The Seat No  
3  
Enter Passanger Name  
latha  
Enter Your MobileNo  
9045325434  
Enter Your full Address  
Door No  
44
```

```
Enter the Street Name
jayalalitha courage city
Enter Your Location
kancheepuram
Enter the Pincode
895596
Which Trip you want to Choose
1.CHENNAI TO BANGALORE
2.CHENNAI TO HYDRABED
3.CHENNAI TO PUNE
3
your selected Chennai to Pune option
```

```
Select which Time you Want..
1.DEPATURE TIME is 10.00AM and ARRIVAL TIME is 2.00PM
2.DEPATURE TIME is 11.00AM and ARRIVAL TIME is 3.10PM
3.DEPATURE TIME is 11.30AM and ARRIVAL TIME is 4.45PM
1
your Depature time is 10.00AM
your Depature time is 10.00AM
```

```
select which type of seat you want
1.AISLE SEAT
2.WINDOW SEAT
2
your selected the type is WINDOW SEAT(C and D rows)
TRANSACTION
1.FIRST CLASS ticket price is 9000
2.NORMAL CLASS ticket price is 4000
enter your choice
1
your selected FIRST CLASS ticket
transaction
1.Inventory spare is 8kg then fare is 1000
2.Inventory spare is 3kg then fare is 500
enter your choice
1
your selected 8kg
```

```
GO TO PAYMENT
Enter your Account Number
565767675676
Enter your Pin Number
6797
your seat is reserved
```

Database records:

```
mysql> select * from seat_reservation;
```

seatno	pname	pmobno	doorno	streetname	location	pincode
1	deepa	8789069345	23	apj dream city	chengalpet	603306
2	kanishka	7867568767	23	ambedkar equality street	thindivanam	890098
3	latha	8967568789	44	jayalalitha courage city	kancheepuram	876987
6	keerthi	8378675674	34	gandhi nagar	chennai	890345
9	thisha	9338777687	10	kalaigarnar service city	kovai	709908

5 rows in set (0.00 sec)

```
mysql> select * from flight_timing_detail;
```

ch1	trip_name	ch2	depature_time	arrival_time	ch3	seat_type	seatno
3	CHENNAI TO PUNE	2	11:00:00 AM	03:10:00 PM	1	aisel type	1
3	CHENNAI TO PUNE	2	11:00:00 AM	03:10:00 PM	1	aisel type	2
3	CHENNAI TO PUNE	1	10:00:00 AM	02:00:00 PM	2	window type	6
1	CHENNAI TO BANGALORE	2	11:00:00 AM	03:10:00 PM	2	window type	9
2	CHENNAI TO HYDRABED	1	10:00:00 AM	02:00:00 PM	2	window type	3

5 rows in set (0.00 sec)

```
mysql> select * from ticket_fare_detail;
```

tickettype	ticketprice	inventoryfare	totalfare	seatno
normal class	4000	1000	5000	1
normal class	4000	1000	5000	2
first class	6000	500	6500	6
first class	6000	500	6500	9
first class	6000	500	6500	3

```
mysql> select * from customers_account;
```

accno	pinno	balance
342434342369	3377	50000
565767675676	6797	10500
678906098709	8899	60000
987879876787	3434	243500
987987565665	9900	79500

5 rows in set (0.00 sec)

```
mysql> select * from admin_account;
```

amount	seatno
5000	1
5000	2
6500	6
6500	9
6500	3

5 rows in set (0.02 sec)

SEAT CANCELLATION CODE:

//CANCELLATION PROCESS

```
/**
 * This cancellation process is given to the passengers convenient.
 *
 * If may be situation passenger not able to travel means it will gives the
 * chance
 * to canceling the seat and conditions applied amount is refund.
 *
 * It asking the major informations regarding that passengers email id,
 * user name, password and seat number every informations are correct
 * then only it will cancel the seat other wise it will not cancel.
 */
public static void seatCancellation()
{
    try
    {
        con=DbConnect.getConnection();
        while(true)
        {
            System.out.println("enter your email id");
            email=sc.next();
            System.out.println("enter the user name");
            username=sc.next();
            System.out.println("enter the password");
            password=sc.next();
            System.out.println("enter the seat number");
            seatno=sc.nextInt();
```

```

String chmail="select pass_emailid from user_registration where
pass_emailid=?";
pst=con.prepareStatement(chmail);
pst.setString(1,email);
rst=pst.executeQuery();
if(rst.next())
{
String chuser="select pass_name from user_registration where pass_name=?";
pst=con.prepareStatement(chuser);
pst.setString(1,username);
rst=pst.executeQuery();
while(rst.next())
{
String chpass="select password from user_registration where password=?";
pst=con.prepareStatement(chpass);
pst.setString(1,password);
rst=pst.executeQuery();
if(rst.next())
{

String canflight="delete from flight_timing_detail where seatno=?";
pst=con.prepareStatement(canflight);
pst.setInt(1,seatno);
int m=pst.executeUpdate();

if(m>0)
{

String canfare="delete from ticket_fare_detail where seatno=?";
pst=con.prepareStatement(canfare);

```



```
pst.setInt(1,seatno);
int l=pst.executeUpdate();
if(l>0)
{

String canadmin="delete from admin_account where seatno=? ";
pst=con.prepareStatement(canadmin);
pst.setInt(1,seatno);
int p=pst.executeUpdate();
if(p>0)
{

String canseat="delete from seat_reservation where seatno=? ";
pst=con.prepareStatement(canseat);
pst.setInt(1,seatno);
int j=pst.executeUpdate();

if(j>0)
{
System.out.println("Your cancellation is done");
break;
}}
break;}
}else
{
System.out.println("your not reserved any seat....");
}

}}
```

```
else
{
System.out.println("invalid email");
}break;}
}catch(Exception e){
e.printStackTrace();
}}
```

Cancellation java output:

```
Enter Your Choice:
1.USER REGISTRATION
2.USER LOGIN
3.EXIT
2
You Are Choose USER LOGIN Process
Enter The UserName
latha
Enter The PassWord
latha04
Login successfull
3.Seat Reservation
4.Seat Cancellation
5.Exit
Enter Your choice...
4
Your choosen Seat Cancellation Process
enter your email id
latha@gmail.com
enter the user name
latha
enter the password
latha04
enter the seat number
3
Your cancellation is done
```

Database records:

```
mysql> select * from seat_reservation;
+-----+-----+-----+-----+-----+-----+-----+
| seatno | pname | pmobno | doorno | streetname | location | pincode |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | deepa | 8789069345 | 23 | apj dream city | chengalpet | 603306 |
| 2 | kanishka | 7867568767 | 23 | ambedkar equality street | thindivanam | 890098 |
| 6 | keerthi | 8378675674 | 34 | gandhi nagar | chennai | 890345 |
| 9 | thisha | 9338777687 | 10 | kalaaignar service city | kovai | 709908 |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.11 sec)

mysql> select * from flight_timing_detail;
+-----+-----+-----+-----+-----+-----+-----+
| ch1 | trip_name | ch2 | depature_time | arrival_time | ch3 | seat_type | seatno |
+-----+-----+-----+-----+-----+-----+-----+
| 3 | CHENNAI TO PUNE | 2 | 11:00:00 AM | 03:10:00 PM | 1 | aisel type | 1 |
| 3 | CHENNAI TO PUNE | 2 | 11:00:00 AM | 03:10:00 PM | 1 | aisel type | 2 |
| 3 | CHENNAI TO PUNE | 1 | 10:00:00 AM | 02:00:00 PM | 2 | window type | 6 |
| 1 | CHENNAI TO BANGALORE | 2 | 11:00:00 AM | 03:10:00 PM | 2 | window type | 9 |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.11 sec)

mysql> select * from ticket_fare_detail;
+-----+-----+-----+-----+-----+
| tickettype | ticketprice | inventoryfare | totalfare | seatno |
+-----+-----+-----+-----+-----+
| normal class | 4000 | 1000 | 5000 | 1 |
| normal class | 4000 | 1000 | 5000 | 2 |
| first class | 6000 | 500 | 6500 | 6 |
| first class | 6000 | 500 | 6500 | 9 |
+-----+-----+-----+-----+-----+
4 rows in set (0.10 sec)
```

SEAT COUNT CODE FOR ADMIN:

//FOR ADMIN PROCESS RESERVED SEAT COUNT

/**

* This is for admin purpose If may be seat is not available they are not given that reservation process enable.

*

* If there is no seat is reserved means that time it gives the message no seats are reserved.

*

* And also reserved seat calculation purpose.

*/

private static void reservationState() {

try

{

```

con=DbConnect.getConnection();
String sel="select count(*) from seat_reservation";
pst=con.prepareStatement(sel);
rst=pst.executeQuery();
if(rst.next())
{
int reservedSeats=rst.getInt(1);
System.out.println("Number of Seat are Reserved "+reservedSeats);
}
else
{
System.out.println("Till now no seat are reserved ");
}
}catch(Exception e)
{
e.printStackTrace();
}

}

```

Reserved seat count java output:

```

Enter Your Choice:
1.ADMIN REGISTRATION
2.ADMIN LOGIN
3.EXIT
2
You Are Choose ADMIN LOGIN Process
Enter The UserName
lokeshwari
Enter The PassWord
lokesh99
Login successfull
1.diplay single record
2.display seat reserved
Enter Your choice...
2
Your choosen seat reserved process
Number of Seat are Reserved 5

```

USER DISPLAY CODE:

```
//FOR USER PROCESS-->DISPLAY RECORDS
```

```
/**
```

```
* This module is used to display the information about the seat reservation.
```

```
*
```

```
* After the seat reservation it will ask you want to know about your seat reservation informations
```

```
* If the passenger given yes means it show all the details about the reservation.
```

```
*/
```

```
public static void displayReservationDetails()
```

```
{
```

```
try
```

```
{
```

```
con=DbConnect.getConnection();
```

```
String de="select * from seat_reservation where seatno=?";
```

```
pst=con.prepareStatement(de);
```

```
pst.setInt(1,seatno);
```

```
rst=pst.executeQuery();
```

```
while(rst.next())
```

```
{
```

```
System.out.println("-----
```

```
PERSONAL DETAILS-----");
```

```
System.out.println("_____
```

```
_____
```

```
_");
```

```

System.out.println("Seatno\t\tName\t\tMobno\t\tDoorno\t\tStreetname\t\tLocation\tPincode");
System.out.println("_____
_____
_ ");
System.out.println(rst.getInt(1)+"\t\t"+rst.getString(2)+"\t\t"+rst.ge
tString(3)+"\t\t"+rst.getString(4)+"\t\t"+rst.getString(5)+"\t"+rst.ge
tString(6)+"\t\t"+rst.getInt(7)+"\t");
System.out.println("_____
_____
__ ");
String seatch="select * from flight_timing_detail where seatno=?";
pst=con.prepareStatement(seatch);
pst.setInt(1, seatno);
rst=pst.executeQuery();
while(rst.next())
{ System.out.println(      );
System.out.println("-----TRAVELLING DETAILS-----
-----");
System.out.println("_____
_____");
System.out.println("Traveling place\t\tdeparture time\t\tarrival
time\t\tSeattype\t");
System.out.println("_____
_____");
System.out.println(rst.getString(2)+"\t\t"+rst.getString(4)+"\t\t"+rst
.getString(5)+"\t\t"+rst.getString(7)+"\t");
System.out.println("_____
_____");
String farech="select * from ticket_fare_detail where seatno=?";
pst=con.prepareStatement(farech);

```

```

pst.setInt(1, seatno);
rst=pst.executeQuery();
while(rst.next())
{
System.out.println(      );
System.out.println("-----FARE DETAILS-----
-----");
System.out.println("_____
_____");
System.out.println("Tickettype\tticketamount\tinventoryfare\ttotalamou
nt");
System.out.println("_____
_____");

System.out.println(rst.getString(1)+"\t"+rst.getInt(2)+"\t\t"+rst.getI
nt(3)+"\t\t"+rst.getInt(4)+"\t");
System.out.println("_____
_____");
break;
}
}break;
}
}
catch(Exception e)
{
e.printStackTrace();
}
}

```

User display java output:

-----PERSONAL DETAILS-----						
Seatno	Name	Mobno	Doorno	Streetname	Location	Pincode
3	latha	8967568789	44	jayalalitha courage city	kancheepuram	876987

-----TRAVELLING DETAILS-----			
Traveling place	sdeparture time	arrival time	Seatttype
CHENNAI TO HYDRABED	10:00:00 AM	02:00:00 PM	window type

-----FARE DETAILS-----			
Tickettype	ticketamount	inventoryfare	totalamount
first class	6000	500	6500

ADMIN DISPLAY CODE:

//FOR ADMIN PROCESS DISPLAY RECORDS

/**

* This module is used to display the information about the seat reservation.

*

* If the admin want the see information about the specified seat number means admin can

* able to put the seat number what ever the seat number he need and it will show the highlighted informations about the passenger.

*/

public static void displayRervation()

{

try

{

con=DbConnect.getconnection();

System.out.println("Enter the seat no:");

seatno=sc.nextInt();

String de="select * from seat_reservation where seatno=?";


```

pst=con.prepareStatement(de);
pst.setInt(1,seatno);
rst=pst.executeQuery();
if(rst.next())
{
System.out.println("-----PERSONAL DETAIL--S-----");
System.out.println("_____
_____");
System.out.println("Seatno\t\tName\t\tMobno\t\tPincode");
System.out.println("_____
_____");
System.out.println(rst.getInt(1)+"\t\t"+rst.getString(2)+"\t\t"+rst.getString
(3)+"\t"+rst.getInt(7));
System.out.println("_____
_____");
System.out.println(          );

String seatch="select *  from flight_timing_detail where seatno=?";
pst=con.prepareStatement(seatch);
pst.setInt(1, seatno);
rst=pst.executeQuery();
while(rst.next())
{
System.out.println("-----TRAVELLING DETAILS-----");

System.out.println("_____
_____");
System.out.println("Traveling place\t\tSeattype\t");
System.out.println("_____
_____");
System.out.println(rst.getString(2)+"\t"+rst.getString(7)+"\t");
System.out.println("_____
_____");

```

```

System.out.println(
);
String farech="select * from ticket_fare_detail where seatno=?";
pst=con.prepareStatement(farech);
pst.setInt(1, seatno);
rst=pst.executeQuery();
while(rst.next())
{
System.out.println("-----FARE DETAILS-----
-");
System.out.println("_____
_____");
System.out.println("Tickettype\tticketamount\tinventoryfare\ttotalamount");
System.out.println("_____
_____");
System.out.println(rst.getString(1)+"\t"+rst.getInt(2)+"\t\t"+rst.getInt(3)+"
\t\t"+rst.getInt(4)+"\t");
System.out.println("_____
_____");
//System.out.println("-----
-----
-----");
break;
}
}
}
else
{
System.out.println("seat no is not exist");
}
}
catch(Exception e)
{
e.printStackTrace();
}

```

$$\left. \begin{array}{l} \} \\ \} \end{array} \right\}$$

Admin display java output:

```

Login successfull
1.display single record
2.display seat reserved
Enter Your choice...
1
Your choosen display single records process
Enter the seat no:
3
|-----PERSONAL DETAIL--S-----|
|
|Seatno          Name          Mobno          Pincode
|-----|
|3              latha          8967568789     876987
|-----|
|
|-----TRAVELLING DETAILS-----|
|
|Traveling place      Seattype
|-----|
|CHENNAI TO HYDRABED  window type
|-----|
|
|-----FARE DETAILS-----|
|
|Tickettype      ticketamount  inventoryfare  totalamount
|-----|
|first class      6000          500           6500
|-----|

```