```
/-----Entity_Class____/
/-----Booking_Class_____/
package com.espire.cabbooking1;
import java.sql.Timestamp;
public class Booking {
     private int bookingId;
     private Timestamp bookingDateTime ;
     private String bookingStatus ;
     private boolean check;
     public Booking() {}
     public Booking(int bookingId, Timestamp bookingDateTime,
String bookingStatus, boolean check) {
          this.bookingId = bookingId;
          this.bookingDateTime = bookingDateTime;
          this.bookingStatus = bookingStatus;
          this.check = check;
     }
     public int getBookingId() {
          return bookingId;
     public void setBookingId(int bookingId) {
          this.bookingId = bookingId;
     public Timestamp getBookingDateTime() {
          return bookingDateTime;
     public void setBookingDateTime(Timestamp bookingDateTime)
{
          this.bookingDateTime = bookingDateTime;
     public String getBookingStatus() {
          return bookingStatus;
     public void setBookingStatus(String bookingStatus) {
          this.bookingStatus = bookingStatus;
     }
```

```
public boolean isCheck() {
          return check;
     public void setCheck(boolean check) {
          this.check = check;
     @Override
     public String toString() {
          return "Booking [bookingId=" + bookingId + ",
bookingDateTime=" + bookingDateTime + ", bookingStatus="
                    + bookingStatus + ", check=" + check +
"1";
}
/-----/
package com.espire.cabbooking1;
public class Cab {
     private int cabNo;
     private int driverId;
     private String cabModel;
     private String cabColor;
     private String availability;
     private boolean check;
    public Cab(){}
     public Cab(int cabNo, int driverId, String cabModel,
String cabColor, String availibility, boolean check) {
          this.cabNo = cabNo;
          this.driverId = driverId;
          this.cabModel = cabModel;
          this.cabColor = cabColor;
          this.availibility = availibility;
          this.check = check;
     }
     public int getCabNo() {
          return cabNo;
     public void setCabNo(int cabNo) {
          this.cabNo = cabNo;
     public int getDriverId() {
          return driverId;
     public void setDriverId(int driverId) {
```

```
this.driverId = driverId;
     public String getCabModel() {
          return cabModel;
     public void setCabModel(String cabModel) {
          this.cabModel = cabModel;
     public String getCabColor() {
          return cabColor;
     public void setCabColor(String cabColor) {
          this.cabColor = cabColor;
     public String getAvailibility() {
          return availibility;
     public void setAvailibility(String availibility) {
          this.availibility = availibility;
     public boolean isCheck() {
          return check;
     public void setCheck(boolean check) {
          this.check = check;
     }
     @Override
     public String toString() {
          return "Cab [cabNo=" + cabNo + ", driverId=" +
driverId + ", cabModel=" + cabModel + ", cabColor=" + cabColor
                    + ", availibility=" + availibility + ",
check=" + check + "]";
}
// Passenger Class
package com.espire.cabbooking1;
public class Passenger {
     private int passengerId;
     private String passengerName;
     private String passengerPhone;
     private String passengerEmail;
     public Passenger() {}
     public Passenger(int passengerId, String passengerName,
String passengerPhone, String passengerEmail) {
```

```
this.passengerId = passengerId;
          this.passengerName = passengerName;
          this.passengerPhone = passengerPhone;
          this.passengerEmail = passengerEmail;
     public int getPassengerId() {
          return passengerId;
     public void setPassengerId(int passengerId) {
          this.passengerId = passengerId;
     public String getPassengerName() {
          return passengerName;
     public void setPassengerName(String passengerName) {
          this.passengerName = passengerName;
     public String getPassengerPhone() {
          return passengerPhone;
     public void setPassengerPhone(String passengerPhone) {
          this.passengerPhone = passengerPhone;
     public String getPassengerEmail() {
          return passengerEmail;
     public void setPassengerEmail(String passengerEmail) {
          this.passengerEmail = passengerEmail;
     @Override
     public String toString() {
          return "Passenger [passengerId=" + passengerId + ",
passengerName=" + passengerName + ", passengerPhone="
                    + passengerPhone + ", passengerEmail=" +
passengerEmail + "]";
}
//User class
package com.espire.cabbooking1;
public class User {
     private String username;
     private String password;
     private String role;
     private boolean checked;
     public User() {}
```

```
public User (String username, String password, String
role, boolean checked) {
          this.username = username;
          this.password = password;
          this.role = role;
          this.checked = checked;
     public String getUsername() {
          return username;
     public void setUsername(String username) {
          this.username = username;
     public String getPassword() {
          return password;
     public void setPassword(String password) {
          this.password = password;
     public String getRole() {
          return role;
     public void setRole(String role) {
          this.role = role;
     public boolean isChecked() {
          return checked;
     public void setChecked(boolean checked) {
          this.checked = checked;
     @Override
     public String toString() {
          return "User [username=" + username + ", password="
+ password + ", role=" + role + ", checked=" + checked
                    + "1";
     }
}
//Dao Interfaces
//Creating AdminDao Interface
package com.espire.cabbooking1.dao;
import java.sql.SQLException;
public interface AdminDao {
     public void viewAllCabs() throws SQLException;
     public void viewAllPassengers() throws SQLException;
```

```
public void viewAllBookings() throws SQLException;
//PassengerDao Interface
package com.espire.cabbooking1.dao;
import java.sql.SQLException;
public interface PassengerDAO {
     void bookTheRide() throws SQLException;
     void cancelTheBooking() throws SQLException;
}
//Implementing of dao interfaces
//Creating AdminDaoImpl
package com.espire.cabbooking1.daoimpl;
import java.sql.SQLException;
import com.espire.cabbooking1.dao.AdminDao;
import com.espire.cabbooking1.serviceimpl.AdminServiceImpl;
public class AdminDaoImpl implements AdminDao{
     AdminServiceImpl adminSerImpl=new AdminServiceImpl();
     @Override
     public void viewAllCabs() throws SQLException{
          adminSerImpl.getAllCabs();
          return;
     }
     @Override
     public void viewAllPassengers() throws SQLException{
          adminSerImpl.getAllPassengers();
          return;
     }
     @Override
     public void viewAllBookings() throws SQLException{
          adminSerImpl.getAllBookings();
          return;
}
//creating PassengerDaoImpl
package com.espire.cabbooking1.daoimpl;
```

```
import java.sql.SQLException;
import java.sql.Timestamp;
import java.util.Scanner;
import com.espire.cabbooking1.dao.PassengerDAO;
import
com.espire.cabbooking1.serviceimpl.PassengerServiceImpl;
public class PassengerDaoImpl implements PassengerDAO{
     PassengerServiceImpl serImpl=new PassengerServiceImpl();
     Scanner scan=new Scanner(System.in);
     public void bookTheRide() throws SQLException {
          System.out.println("Enter booking id");
        int bId=scan.nextInt();
        scan.nextLine();
//
        System.out.println("Enter booking Date and time");
        Timestamp ts=new
Timestamp(System.currentTimeMillis());
//
          SimpleDateFormat sdf = new SimpleDateFormat("dd-mm-
уууу");
//
          String bDate=scan.nextLine();
        System.out.println("Enter booking Status");
        String bStatus=scan.nextLine();
//
          boolean bn = "true" != null;
        serImpl.add(bId, ts, bStatus);
        return;
     }
     public void cancelTheBooking() throws SQLException {
          System.out.println("Enter booking id");
        int bId=scan.nextInt();
          serImpl.delete(bId);
          return;
}
//Creating Service Interface
//Creating AdminService Interface
package com.espire.cabbooking1.service;
import java.sql.SQLException;
import com.espire.cabbooking1.Booking;
import com.espire.cabbooking1.Cab;
import com.espire.cabbooking1.Passenger;
public interface AdminService {
     public Cab getAllCabs()throws SQLException;
     public Passenger getAllPassengers()throws SQLException;
```

```
public Booking getAllBookings()throws SQLException;
//Creating Passenger service Interface
package com.espire.cabbooking1.service;
import java.sql.SQLException;
import java.sql.Timestamp;
public interface PassengerService {
     void add(int bId, Timestamp bDate, String bStatus)throws
SQLException;
    void delete(int bId)throws SQLException;
}
//AdminServiceImpl
package com.espire.cabbooking1.serviceimpl;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import com.espire.cabbooking1.Booking;
import com.espire.cabbooking1.Cab;
import com.espire.cabbooking1.Passenger;
import com.espire.cabbooking1.connection.DBConnection;
import com.espire.cabbooking1.service.AdminService;
public class AdminServiceImpl implements AdminService{
     DBConnection connection = new DBConnection();
     @Override
     public Cab getAllCabs() throws SQLException{
          String sql="select*from Cab";
          Connection con = connection.getCon();
          Statement st = con.createStatement();
          ResultSet rs=st.executeQuery(sql);
          while(rs.next()) {
               System.out.println(rs.getInt(1)+"
"+rs.getInt(2)+" "+rs.getString(3)+" "+rs.getString(4)+"
"+rs.getString(5));
          return null;
     }
     @Override
     public Passenger getAllPassengers() throws SQLException {
          String sql="select*from Passenger";
          Connection con = connection.getCon();
          Statement st = con.createStatement();
```

```
ResultSet rs=st.executeQuery(sql);
          while(rs.next()) {
               System.out.println(rs.getInt(1)+"
"+rs.getString(2)+" "+rs.getString(3)+" "+rs.getString(4));
          return null;
     }
     @Override
     public Booking getAllBookings() throws SQLException {
          String sql="select*from Booking";
          Connection con = connection.getCon();
          Statement st = con.createStatement();
          ResultSet rs=st.executeQuery(sql);
          while(rs.next()) {
               System.out.println(rs.getInt(1)+"
"+rs.getString(2)+" "+rs.getString(5));
          return null;
     }
}
//PassengerServiceImpl
package com.espire.cabbooking1.serviceimpl;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.sql.Timestamp;
import java.util.Date;
import java.util.Scanner;
import com.espire.cabbooking1.connection.DBConnection;
import com.espire.cabbooking1.service.PassengerService;
public class PassengerServiceImpl implements PassengerService{
     DBConnection connection = new DBConnection();
    Scanner scan=new Scanner(System.in);
     public void add(int bId, Timestamp date, String bStatus)
throws SQLException {
          String sql = "insert into
booking(bookingId,bookingDateTime,bookingStatus) values(" +
bId + ", '"
                    + date + "','" + bStatus + "')";
          Connection con = connection.getCon();
          Statement st = con.createStatement();
          int n = st.executeUpdate(sql);
          if (n >= 0)
               System.out.println(" Cab Booked");
```

```
return;
     }
     public void delete(int bId) throws SQLException {
          String sql = "delete from booking where
bookingId="+bId;
          Connection con = connection.getCon();
          Statement st = con.createStatement();
          int n = st.executeUpdate(sql);
          if (n >= 0)
               System.out.println("Ride Canclled");
          return;
}
//Creating UserInterface
//Including Main class
package com.espire.cabbooking1.ui;
import java.sql.SQLException;
import java.util.Scanner;
import com.espire.cabbooking1.connection.DBConnection;
import com.espire.cabbooking1.daoimpl.AdminDaoImpl;
import com.espire.cabbooking1.daoimpl.PassengerDaoImpl;
public class LoginUI {
     public static void main(String[]args) throws SQLException
          DBConnection connection = new DBConnection();
          PassengerDaoImpl impl=new PassengerDaoImpl();
          AdminDaoImpl adminImpl=new AdminDaoImpl();
          Scanner scan=new Scanner(System.in);
          int n;
          do {
        System.out.println("Select the Number\n"
               + "1. Admin\n"
               + "2. User\n");
        n=scan.nextInt();
          switch(n) {
        case 1:
          System.out.println("Enter id:");
          int id=scan.nextInt();
          System.out.println("Enter password");
          int pass=scan.nextInt();
          if(id==1 && pass== 1)
          char ch;
          System.out.println("Select the Characater\n"
                    + "A. View all cabs\n"
                    + "B. View all passengers\n"
```

```
ch=scan.next().charAt(0);
           switch(ch) {
           case 'A':
                 adminImpl.viewAllCabs();
                 break;
           case 'B':
                 adminImpl.viewAllPassengers();
                break;
           case 'C':
                adminImpl.viewAllBookings();
                 break;
           }
           else {
                 System.out.println("Wrong credentials");
              break;
         case 2:
           char ch;
           System.out.println("Select the Character\n"
                       + "A. Book The Ride\n"
                      + "B. Cancel The Ride\n");
           ch=scan.next().charAt(0);
           switch(ch) {
           case 'A':
                 impl.bookTheRide();
                break;
           case 'B':
                 impl.cancelTheBooking();
                 break;
             break;
         default:
             System.out.println("Not a valid choice");
             break;
           } while (true);
     }
}
//creating DBConnection to connect with the database
package com.espire.cabbooking1.connection;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
```

+ "C. View all bookings\n");

```
public class DBConnection {
       String driver="com.mysql.cj.jdbc.Driver";
  String dburl="jdbc:mysql://localhost:3306/cabbooking";
  String user="root";
  String password="root";
  Connection con;
  public void createConnection() {
    try {
      Class.forName(driver);
      con=DriverManager.getConnection(dburl,user,password);
      //Statement st=con.createStatement();
      if(con!=null) {
        System.out.println("Connection successfull");
        //Statement st=con.createStatement();
      // return con;
        }
        else {
          System.out.println("Connection failed");
    }}
    catch(ClassNotFoundException | SQLException e) {
      System.out.println(e.getMessage());
    }
  }
  public Connection getCon() {
    try {
      Class.forName(driver);
      con=DriverManager.getConnection(dburl,user,password);
    }
    catch(ClassNotFoundException | SQLException e) {
```

```
System.out.println(e.getMessage());
}
return con;
}
```