## FlyAway source code

## MasterServlet.java

```
package Controller;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.SQLException;
import java.util.List;
import\ javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import\ javax. servlet. http. Http Servlet;
import\ javax. servlet. http. Http Servlet Request;
import\ javax. servlet. http. Http Servlet Response;
import models.Flight;
import models.Passenger;
import transferobjectaccess.FlightDAO;
import transferobjectaccess.PassengerDAO;
@WebServlet("/")
public class MasterServlet extends HttpServlet {
           private FlightDAO ob;
           private Flight f;
           private PassengerDAO ob1;
           private Passenger p;
           private int num;
           private String pd = null;
           private int count, flag;
           private List<Passenger> list1;
           private static final long serialVersionUID = 1L;
           public void init() {
                      ob = new FlightDAO();
                      ob1 = new PassengerDAO();
                      pd = "admin";
                      count = 0;
                      flag = 0;
                      list1 = null;
           public MasterServlet() {
                      count = 0;
                      list1 = null;
           public void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
                      String action = request.getServletPath();
                      try {
                                 switch (action) {
                                 case "/add":
                                            showNewForm(request, response);
                                 case "/delete":
                                             deleteDetails(request, response);
                                 case "/edit".
                                             EditDetails(request, response);
                                            break;
                                 case "/insert":
                                            insertDetails(request, response);
```

```
case "/update":
                                 updateDetails(request, response);
                                 break:
                      case "/reset".
                                 changePassword(request, response);
                                 break;
                      case "/register":
                                 register(request, response);
                                 break;
                      case "/storage":
                                 storage(request, response);
                                 break;
                      case "/find":
                                 getflightDetailsById(request, response);
                                 break;
                      case "/login":
                                 login(request, response);
                                 break:
                      case "/passenger".
                                 passengerFlightDetails(request, response);
                                 break;
                      case "/insertPassenger":
                                 count++,
                                 passengerInsertDetails(request, response);
                                 break:
                      case "/deletePassenger":
                                 passengerDeleteDetails(request, response);
                                 break:
                      case "/booking".
                                 BookingDetails(request, response);
                                 break:
                      default:
                                 showAllDetails(response, request);
                                 break;
           } catch (Exception e) {
                      e.printStackTrace();
}
private\ void\ Booking Details (Http Servlet Request\ request,\ Http Servlet Response\ response)
                      throws ServletException, IOException {
           List<Passenger> list = ob1.getAllDetails();
           list1 = list;
           request.setAttribute("list", list);
           RequestDispatcher rd = request.getRequestDispatcher("RegisterPage.jsp");
           rd.forward(request, response);
private void passengerInsertDetails(HttpServletRequest request, HttpServletResponse response) throws IOException {
           if (count > num)
                      response.sendRedirect("HomePage.jsp");
           else {
                      String fname = request.getParameter("fname");
                      String flname = request.getParameter("lname");
                      long\ contact = Long.parseLong(request.getParameter("contact"));
                      int age = Integer.parseInt(request.getParameter("age"));
                      String email = request.getParameter("email");
                      Passenger p = new Passenger(fname, flname, age, contact, email);
                      ob1.insertPassengerInDB(p);
                      response.sendRedirect("booking");
private void passengerDeleteDetails(HttpServletRequest request, HttpServletResponse response) throws IOException {
           int id = Integer.parseInt(request.getParameter("id"));
```

break:

```
Passenger p = ob1.getPassengerById(id);
           ob1.deletePassenger(p);
           response.sendRedirect("booking");
private void EditDetails(HttpServletRequest request, HttpServletResponse response)
                      throws SQLException, ServletException, IOException {
           int id = Integer.parseInt(request.getParameter("fid"));
           Flight f = ob.getFlightById(id);
           Request D is patcher\ dispatcher = request.get Request D is patcher ("AddFlight.jsp");
           request.setAttribute("f", f);
           dispatcher.forward(request, response);
private\ void\ update Details (HttpServletRequest\ request,\ HttpServletResponse\ response)
                      throws SQLException, IOException {
           int fid = Integer.parseInt(request.getParameter("fid"));
           int fnumber = Integer.parseInt(request.getParameter("fnumber")); \\
           String fname = request.getParameter("fname");
           String forigin = request.getParameter("forigin");
           String ftarget = request.getParameter("ftarget");
           String date = request.getParameter("fdate");
           float fprice = Float.parseFloat(request.getParameter("fprice"));
           Flight fl = new Flight(fid, fnumber, fname, forigin, ftarget, date, fprice);
           ob.updateFlight(fl);
           response.send Redirect ("view");\\
private void deleteDetails(HttpServletRequest req, HttpServletResponse resp) throws IOException {
           int id = Integer.parseInt(req.getParameter("fid"));
           Flight f = ob.getFlightById(id);
           ob.deleteFlight(f);
           resp.sendRedirect("view");
private\ void\ show All Details (Http Servlet Response\ response,\ Http Servlet Request\ request)
                      throws ServletException, IOException {
           List<Flight> list = ob.getAllDetails();
           System.out.println(list);
           request.setAttribute("list", list);
           Request Dispatcher \ rd = request.get Request Dispatcher ("Flight Details.jsp");
           rd.forward(request, response);
private void showNewForm(HttpServletRequest request, HttpServletResponse response)
                      throws ServletException, IOException {
           RequestDispatcher rd = request.getRequestDispatcher("AddFlight.jsp");
           rd.forward(request, response);
private void insertDetails(HttpServletRequest request, HttpServletResponse response) throws IOException {
           int fnumber = Integer.parseInt(request.getParameter("fnumber"));
           String fname = request.getParameter("fname");
           String forigin = request.getParameter("forigin");
           String ftarget = request.getParameter("ftarget");
           String date = request.getParameter("fdate");
           float fprice = Float.parseFloat(request.getParameter("fprice"));
           Flight fl = new Flight(fnumber, fname, forigin, ftarget, date, fprice);
           ob.insertFlightInDB(fl);
           response.sendRedirect("view");
}
```

```
private void passengerFlightDetails(HttpServletRequest request, HttpServletResponse response)
                      throws ServletException, IOException {
           String origin = request.getParameter("origin");
           String target = request.getParameter("target");
           String date = request.getParameter("date");
           num = Integer.parseInt(request.getParameter("qty"));
          List<Flight> list = ob1.getAllDetailsByOriginDate(origin, date, target);
          // System.out.println(list);
          // request.setAttribute("num", num);
          request.setAttribute("Selectedlist", list);
           Request Dispatcher \ rd = request.get Request Dispatcher ("Passenger Flights.jsp");
          rd.forward(request, response);
}
private\ void\ getflight Details By Id (Http Servlet Request\ request,\ Http Servlet Response\ response)
                      throws ServletException, IOException {
           int id = Integer.parseInt(request.getParameter("fid"));
           FlightDAO(x = new FlightDAO();
          f = x.getFlightById(id);
           // request.setAttribute("num", num);
           RequestDispatcher rd = request.getRequestDispatcher("booking");
          rd.forward(request, response);
private\ void\ register(HttpServletRequest\ request,\ HttpServletResponse\ response)
                      throws ServletException, IOException {
           if (count != 0) {
                      ob.relation(f, list1);
                      request.setAttribute("n", num);
                      request.set Attribute("f",f);\\
                      // request.setAttribute("p", p);
                      Request D is patcher \ rd = request. get Request D is patcher ("Summary Page. jsp");
                      rd.forward(request, response);
          } else
                      response.sendRedirect("HomePage.jsp");
private void storage(HttpServletRequest request, HttpServletResponse response) throws IOException {
          ob1.insertPassengerInDB(p);
          response.sendRedirect("HomePage.jsp");
private void changePassword(HttpServletRequest request, HttpServletResponse response)
                      throws IOException, ServletException {
           String newpwd = request.getParameter("newpwd");
          String confpwd = request.getParameter("confpwd");
          if (newpwd.compareTo(confpwd) == 0) {
                      pd = newpwd;
                      response.sendRedirect("AdminLogin.jsp");
           } else {
                      Request Dispatcher \ rd = request.get Request Dispatcher ("Reset Page.jsp");
                      PrintWriter out = response.getWriter();
                      rd.include(request, response);
                      out.println("<center> <span style='color:red'> Invalid Credentials!!! </span></center>");
private void login(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
           String email = request.getParameter("email");
          String\ pwd = request.getParameter("pwd");
           RequestDispatcher\ rd = null;
```

```
if (email.equalsIgnoreCase("admin@test.com") && pwd.equals(pd)) {
                                rd = request.getRequestDispatcher("view");
                                rd.forward(request, response);
                     } else {
                                rd = request.getRequestDispatcher("AdminLogin.jsp");
                                PrintWriter out = response.getWriter();
                               rd.include(request, response);
                                out.println("<center> <span style='color:red'> Invalid Credentials!!! </span></center>");
Flight.java
package models;
import\ java.util. Array List;
import java.util.HashSet;
import java.util.List;
import javax.persistence.CascadeType;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import\ javax.persistence. Generation Type;
import javax.persistence.Id;
import javax.persistence.Table;
import javax.persistence.JoinColumn;
import javax.persistence.JoinTable;
import javax.persistence.ManyToMany;
@Entity
@Table(name = "Flight")
public class Flight {
          @GeneratedValue(strategy = GenerationType.IDENTITY)
          @Column(name = "flight_id")
          private int flightId;
          @Column(name = "flight_number")
          private int flightNumber;
          @Column(name = "flight_name")
          private String airline;
          @Column(name = "Source")
          private String origin;
          @Column(name = "Destination")
          private String target;
          @Column(name = "Boarding_Date")
          private String dob;
          @Column(name = "Ticket_price")
          private float price;
          public Flight() {
          @ManyToMany(cascade = CascadeType.ALL)
          @JoinTable(name = "flight_passenger",
                    joinColumns = \bar{f}
                                          @JoinColumn(name = "flight_id")
                     inverseJoinColumns = {
                                          @JoinColumn(name = "passenger_id")
```

```
public Flight(int flightId, int flightNumber, String airline, String origin, String target, String dob, float price) {
           super();
            this.flightId = flightId;
           this.flightNumber = flightNumber;
           this.airline = airline;
this.origin = origin;
           this.target = target;
           this.dob = dob;
           this.price = price;
public Flight(int flightNumber, String airline, String origin, String target, String dob, float price) {
           super();
           this.flightNumber = flightNumber;
           this.airline = airline;
           this.origin = origin;
           this.target = target;
           this.dob = dob;
           this.price = price;
public int getFlightId() {
           return flightId;
public void setFlightId(int flightId) {
           this.flightId = flightId; \\
public int getFlightNumber() {
           return flightNumber;
public void setFlightNumber(int flightNumber) {
           this.flightNumber = flightNumber; \\
public String getAirline() {
           return airline;
public void setAirline(String airline) {
           this.airline = airline;
public String getOrigin() {
           return origin;
public void setOrigin(String origin) {
           this.origin = origin;
public String getTarget() {
           return target;
public void setTarget(String target) {
           this.target = target;
public String getDob() {
           return dob;
public void setDob(String dob) {
           this.dob = dob;
public float getPrice() {
           return price;
```

List<Passenger> passenger = new ArrayList<Passenger>();

## Passenger.java

```
package models;
import java.util.ArrayList;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
import javax.persistence.CascadeType;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.Table;
import\ javax.persistence.Many To Many;
@Entity
@Table(name = "Passenger")
public class Passenger {
           \bigcirc Generated Value (strategy = Generation Type. IDENTITY)
           @Column(name="passenger id")
           private int pId;
           @Column(name="passenger_fname")
           private String fname;
           @Column(name="passenger lname")
           private String lname;
           @Column(name="passenger_age")
          private int age;
           @Column(name="passenger mob")
          private long contact;
           @Column(name="passenger_email")
          private String email;
           @ManyToMany(mappedBy = "passenger")//, cascade = CascadeType.MERGE)
           private List<Flight> flight = new ArrayList<Flight>();
           public Passenger() {
          public Passenger(int pId, String fname, String lname, int age, long contact, String email) {
                     super();
                     this.pId = pId;
                     this.fname = fname;
this.lname = lname;
                     this.age = age;
                     this.contact = contact;
                     this.email = email;
```

```
public Passenger(String fname, String lname, int age, long contact, String email) {
           super();
           this.fname = fname;
this.lname = lname;
           this.age = age;
this.contact = contact;
this.email = email;
public int getpId() {
           return pId;
public void setpId(int pId) {
           this.pId = pId;
public String getFname() {
           return fname;
public void setFname(String fname) {
           this.fname = fname;
public String getLname() {
           return lname;
public void setLname(String lname) {
           this.lname = lname;
public int getAge() {
           return age;
public void setAge(int age) {
           this.age = age;
public long getContact() {
           return contact;
public void setContact(long contact) {
           this.contact = contact;
public String getEmail() {
           return email;
public void setEmail(String email) {
           this.email = email;
public List<Flight> getFlight() {
           return flight;
public void setFlight(List<Flight> flight) {
           this.flight = flight;
```

}