FlyAway.
(An Air Booking Portal)
(Source Code)

- ## Version History:

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2.	**Purpose**	Source Code.
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4.	**Version**	1.0

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1. Folder Structure.


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```
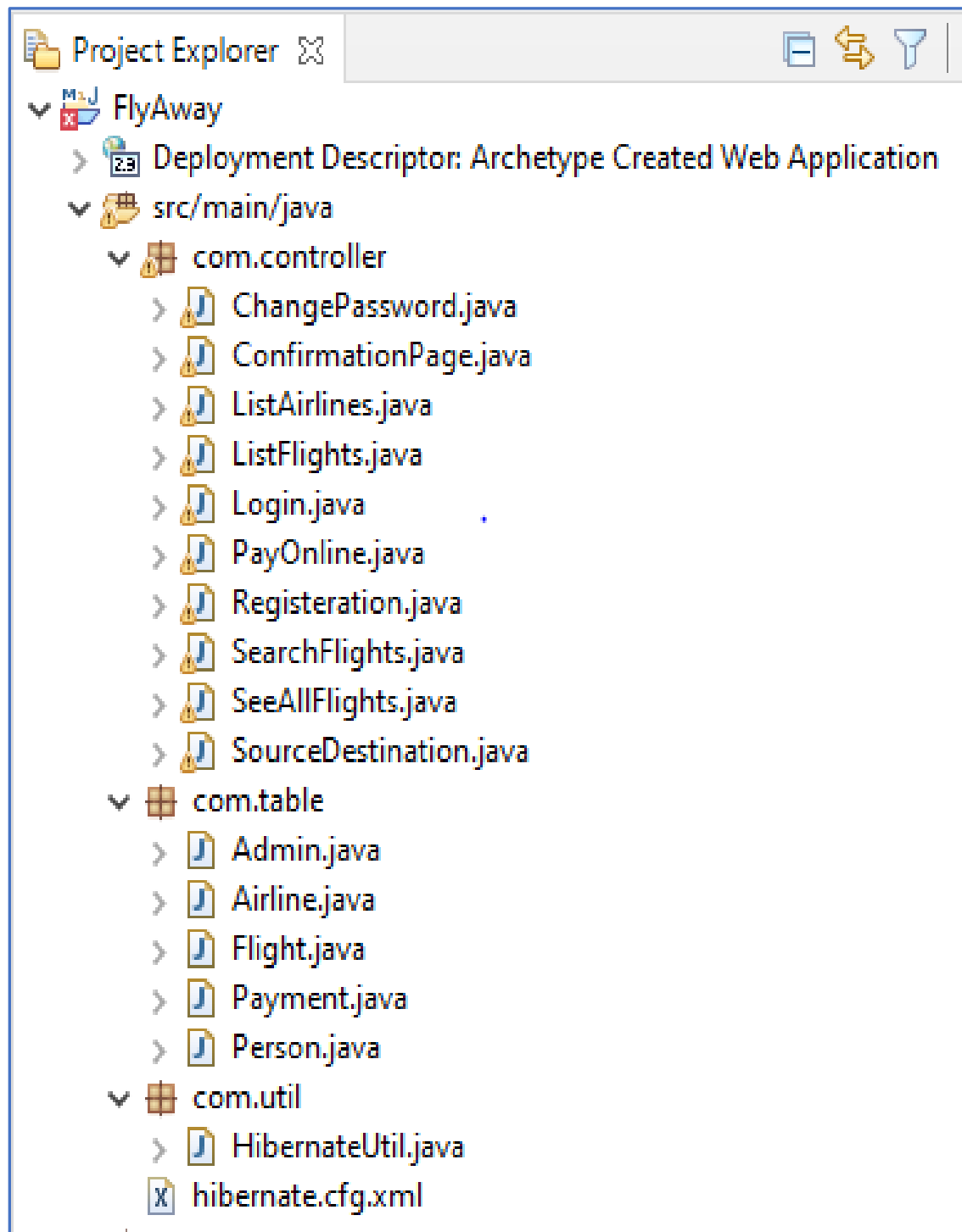
```
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  >   JRE System Library [J2SE-1.5]
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  v   target
  >       m2e-wtp
  M   pom.xml
v   Servers
  >   Tomcat v8.5 Server at localhost-config
```

2. Project Files.

A. Com.controller (Servlets).

1. Change password.java

```
1  package com.controller;
2
3⊕ import org.hibernate.query.Query;
15
16
17  public class ChangePassword extends HttpServlet
18  {
19      private static final long serialVersionUID = 1L;
20
21⊝    protected void doGet(final HttpServletRequest request, final HttpServletResponse response) throws ServletException, IOException {
22      }
23
24⊝    protected void doPost(final HttpServletRequest request, final HttpServletResponse response) throws ServletException, IOException {
25          final PrintWriter out = response.getWriter();
26          response.setContentType("text/html");
27          final String password = request.getParameter("password");
28          final String confirmPassword = request.getParameter("confirmpassword");
29          if (password.equals(confirmPassword)) {
30              try {
31                  final HttpSession httpsession = request.getSession();
32                  final SessionFactory sFactory = HibernateUtil.buildSessionFactory();
33                  final Session session = sFactory.openSession();
34                  session.beginTransaction();
35                  final String email = (String)httpsession.getAttribute("username");
36                  final String query = "select id from Admin a where a.email = '" + email + "'";
37                  final int resultFromQ1 = (Integer)session.createQuery(query).getSingleResult();
38                  final Query q3 = session.createQuery("update Admin set password=:n where id=:i");
39                  q3.setParameter("n", (Object)confirmPassword);
40                  q3.setParameter("i", (Object)resultFromQ1);
41                  final int status = q3.executeUpdate();
42                  System.out.println(status);
43                  session.getTransaction().commit();
44                  session.close();
45                  out.write("Password Changed Succesfully");
46                  out.close();
47              }
48              catch (Exception e) {
49                  e.printStackTrace();
50              }
51          }else {
52              out.print("Sorry, your passwords do not match");
53          }
54      }
55  }
```

- ***Reset of the files are present in Project Specification.***

B. Com.table.

1.Admin.java

```java
package com.table;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name="admin")
public class Admin {
        @Id
        @GeneratedValue(strategy=GenerationType.AUTO)
        @Column(name="admin_id")
        private int id;

        @Column(name="first_name")
        private String firstName;

        @Column(name="last_name")
        private String lastName;

        @Column(name="email")
        private String email;

        @Column(name="password")
        private String password;

        public Admin() {}
        public Admin(String firstName, String lastName, String email, String password) {
                super();
                this.firstName = firstName;
                this.lastName = lastName;
                this.email = email;
                this.password = password;
        }

        public int getId() {
                return id;
        }

        public void setId(int id) {
```

```java
                this.id = id;
        }

        public String getFirstName() {
                return firstName;
        }

        public void setFirstName(String firstName) {
                this.firstName = firstName;
        }

        public String getLastName() {
                return lastName;
        }

        public void setLastName(String lastName) {
                this.lastName = lastName;
        }

        public String getEmail() {
                return email;
        }

        public void setEmail(String email) {
                this.email = email;
        }

        public String getPassword() {
                return password;
        }

        public void setPassword(String password) {
                this.password = password;
        }



}
```

2.Airline.java

```java
package com.table;

import java.util.Set;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
```

```java
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.OneToMany;
import javax.persistence.Table;

@Entity
@Table(name="airline")
public class Airline {
        @Id
        @GeneratedValue(strategy=GenerationType.AUTO)
        @Column(name="a_id")
        private int id;

        @Column(name="airline")
        private String airline;

        @OneToMany(mappedBy="airline")
        private Set <Flight> flights;

        public Airline() {}
        public Airline(String airline, Set<Flight> flights) {
                super();
                this.airline = airline;
                this.flights = flights;
        }



        public int getId() {
                return id;
        }
        public void setId(int id) {
                this.id = id;
        }
        public String getAirline() {
                return airline;
        }
        public void setAirline(String airline) {
                this.airline = airline;
        }
        public Set<Flight> getFlights() {
                return flights;
        }
        public void setFlights(Set<Flight> flights) {
                this.flights = flights;
        }
```

```java
}

3.Flight.java

package com.table;

import java.sql.Date;
import java.util.Set;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.ManyToMany;
import javax.persistence.ManyToOne;
import javax.persistence.Table;

@Entity
@Table(name="flight")
public class Flight {
        @Id
        @GeneratedValue(strategy=GenerationType.AUTO)
        @Column(name="f_id")
        private int id;

        @Column(name="number_of_seats")
        private int numberOfSeats;

        @Column(name="price")
        private double price;

        @Column(name="source")
        private String source;

        @Column(name="destination")
        private String destination;

        @Column(name="date_of_departure")
        private Date dateOfDeparture;

        @Column(name="date_of_arrival")
        private Date dateOfArrival;

        @ManyToOne()
        @JoinColumn(name="a_id", nullable=false)
        private Airline airline;
```

```java
@ManyToMany(mappedBy = "flights")
Set<Person> persons;

public Flight() {}

public Flight(int numberOfSeats, double price, String source, String destination, Date dateOfDeparture,
                Date dateOfArrival, Airline airline, Set<Person> persons) {
        super();
        this.numberOfSeats = numberOfSeats;
        this.price = price;
        this.source = source;
        this.destination = destination;
        this.dateOfDeparture = dateOfDeparture;
        this.dateOfArrival = dateOfArrival;
        this.airline = airline;
        this.persons = persons;
}

public Set<Person> getPersons() {
        return persons;
}

public void setPersons(Set<Person> persons) {
        this.persons = persons;
}


public int getId() {
        return id;
}


public void setId(int id) {
        this.id = id;
}


public int getNumberOfSeats() {
        return numberOfSeats;
}

public void setNumberOfSeats(int numberOfSeats) {
        this.numberOfSeats = numberOfSeats;
}

public double getPrice() {
        return price;
```

```java
        }

        public void setPrice(double price) {
                this.price = price;
        }

        public String getSource() {
                return source;
        }

        public void setSource(String source) {
                this.source = source;
        }

        public String getDestination() {
                return destination;
        }

        public void setDestination(String destination) {
                this.destination = destination;
        }

        public Date getDateOfDeparture() {
                return dateOfDeparture;
        }

        public void setDateOfDeparture(Date dateOfDeparture) {
                this.dateOfDeparture = dateOfDeparture;
        }

        public Date getDateOfArrival() {
                return dateOfArrival;
        }

        public void setDateOfArrival(Date dateOfArrival) {
                this.dateOfArrival = dateOfArrival;
        }

        public Airline getAirline() {
                return airline;
        }

        public void setAirline(Airline airline) {
                this.airline = airline;
        }

}
```

```
4.Payment.java

package com.table;

import java.sql.Date;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.ManyToOne;
import javax.persistence.Table;

@Entity
@Table(name="payment")
public class Payment {
        @Id
        @GeneratedValue(strategy=GenerationType.AUTO)
        @Column(name="pay_id")
        private int id;

        @Column(name="card_number")
        private String cardNumber;

        @Column(name="expiration")
        private Date expiration;

        @Column(name="security_code")
        private int securityCode;

        @Column(name="card_fname")
        private String firstNameOnCard;

        @Column(name="card_lname")
        private String lastNameOnCard;

        @ManyToOne()
        @JoinColumn(name="per_id", nullable=false)
        private Person person;

        public Payment() {}

        public Payment(String cardNumber, Date expiration, int securityCode, String firstNameOnCard, String
lastNameOnCard,
                        Person person) {
                super();
                this.cardNumber = cardNumber;
```

```java
            this.expiration = expiration;
            this.securityCode = securityCode;
            this.firstNameOnCard = firstNameOnCard;
            this.lastNameOnCard = lastNameOnCard;
            this.person = person;
    }

    public int getId() {
            return id;
    }

    public void setId(int id) {
            this.id = id;
    }

    public String getCardNumber() {
            return cardNumber;
    }

    public void setCardNumber(String cardNumber) {
            this.cardNumber = cardNumber;
    }

    public Date getExpiration() {
            return expiration;
    }

    public void setExpiration(Date expiration) {
            this.expiration = expiration;
    }

    public int getSecurityCode() {
            return securityCode;
    }

    public void setSecurityCode(int securityCode) {
            this.securityCode = securityCode;
    }

    public String getFirstNameOnCard() {
            return firstNameOnCard;
    }

    public void setFirstNameOnCard(String firstNameOnCard) {
            this.firstNameOnCard = firstNameOnCard;
    }

    public String getLastNameOnCard() {
```

```java
                return lastNameOnCard;
        }

        public void setLastNameOnCard(String lastNameOnCard) {
                this.lastNameOnCard = lastNameOnCard;
        }

        public Person getPerson() {
                return person;
        }

        public void setPerson(Person person) {
                this.person = person;
        }
}
```

5.Person.java

```java
package com.table;

import java.sql.Date;
import java.util.Set;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.JoinTable;
import javax.persistence.ManyToMany;
import javax.persistence.OneToMany;
import javax.persistence.Table;

@Entity
@Table(name="person")
public class Person {
        @Id
        @GeneratedValue(strategy=GenerationType.AUTO)
        @Column(name="per_id")
        private int id;

        @Column(name="first_name")
        private String firstName;

        @Column(name="last_name")
        private String lastName;
```

```java
        @Column(name="email")
        private String email;

        @Column(name="birthday")
        private Date birthday;

        @Column(name="time_booked")
        private Date timeBooked;

        @OneToMany(mappedBy="person")
        private Set <Payment> payments;

        @ManyToMany
        @JoinTable(
         name = "personflight",
         joinColumns = @JoinColumn(name = "per_id"),
         inverseJoinColumns = @JoinColumn(name = "f_id"))
        Set<Flight> flights;

        public Person () {}

        public Person(String firstName, String lastName, String email, Date birthday, Date timeBooked,
                        Set<Payment> payments, Set<Flight> flights) {
                super();
                this.firstName = firstName;
                this.lastName = lastName;
                this.email = email;
                this.birthday = birthday;
                this.timeBooked = timeBooked;
                this.payments = payments;
                this.flights = flights;
        }

        public int getId() {
                return id;
        }

        public void setId(int id) {
                this.id = id;
        }

        public String getFirstName() {
                return firstName;
        }

        public void setFirstName(String firstName) {
                this.firstName = firstName;
        }
```

```java
public String getLastName() {
        return lastName;
}

public void setLastName(String lastName) {
        this.lastName = lastName;
}

public String getEmail() {
        return email;
}

public void setEmail(String email) {
        this.email = email;
}

public Date getBirthday() {
        return birthday;
}

public void setBirthday(Date birthday) {
        this.birthday = birthday;
}

public Date getTimeBooked() {
        return timeBooked;
}

public void setTimeBooked(Date timeBooked) {
        this.timeBooked = timeBooked;
}

public Set<Payment> getPayments() {
        return payments;
}

public void setPayments(Set<Payment> payments) {
        this.payments = payments;
}

public Set<Flight> getFlights() {
        return flights;
}

public void setFlights(Set<Flight> flights) {
        this.flights = flights;
}
```

c. Jsp Files.

1.ChangePassword.jsp

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Admin Login Page</title>
</head>
<body>
    <a href="Dashboard.jsp">Dashboard</a>

    <h1>Change Password</h1>
    <form name="change password" method="POST" action="ChangePassword">
        New Password : <input type="password" name="password"> <br/>
        Confirm New Password: <input type="password" name="confirmpassword"> <br/>
        <br/>
        <input type="submit" value="Change password">
    </form>

</body>
</html>
```

2.Dashboard.jsp

```
1   <!DOCTYPE html>
2   <html>
3   <head>
4   <meta charset="ISO-8859-1">
5   <title>Admin Dashboard</title>
6   </head>
7   <body>
8       <a href="index.jsp">Home</a> |
9       <a href="index.jsp">Logout</a> |
10      <a href="ChangePassword.jsp">Change Password</a> |
11      <a href="ListAirlines">Airline Master View </a> |
12      <a href="SourceDestination">Source/Destination Master View</a>
13      <a href="ListFlights">Flight Master View</a><br/>
14      <hr>
15      <center>
16      <h1>Welcome to Admin Dashboard.</h1>
17      </center>
18  </body>
19  </html>
```

3.index.jsp

```html
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <style type="text/css">
5  h1 {
6     font-size: 72px;
7     background: -webkit-linear-gradient(#eee, #333);
8     -webkit-background-clip: text;
9     -webkit-text-fill-color: transparent;
10 }
11 h2 {
12 color:blue;
13 }
14
15 hr {
16    border: 1px solid grey;
17 }
18
19 </style>
20 <meta charset="UTF-8">
21 <title>Welcome To Fly Away Ticket Booking Portal</title>
22 </head>
23 <body>
24     <a href="Login.jsp">Admin Login</a>
25     <hr>
26     <center>
27     <h1>Welcome to FlyAway.</h1>
28     <h2>Search For Flights</h2>
29     <form name="searchForFlights" method="GET" action="SearchFlights">
30          Flying From :<input type="text" name="source" > <br/>
31          Flying To :<input type="text" name="destination" > <br/>
32          Your Max Price : <input type="number" name="price"> <br/>
33          Flights On or After Date : <input type="date" name="date"> <br/
34          <br/>
35          <input type="submit" value="Search for flights!">
36     </form>
37     <form name ="seeAllFlights" method="GET" action="SeeAllFlights">
38          <input type="submit" value="See All Flights">
39     </form>
40     </center>
41 </body>
42 </html>
```

4.Login.jsp

```html
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <meta charset="UTF-8">
5  <title>Admin Login Page</title>
6  </head>
7  <body>
8      <a href="index.jsp">Home</a>
9      <center>
10          <hr>
11          <h1>Admin Login Page</h1>
12          <hr>
13          </br> </br>
14          <form name="LoginForm" method="POST" action="Login">
15              Username: <input type="text" name="username"> <br />
16              Password : <input type="password" name="password"> <br /> <br />
17              <input type="submit" value="Login">
18          </form>
19      </center>
20  </body>
21  </html>
```

5.Payment.jsp

```html
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <meta charset="UTF-8">
5  <title>Payment</title>
6  </head>
7  <body>
8      <h1>Enter Payment Details</h1>
9      <form name="paymentDetails" method="POST" action="PayOnline">
10          First Name On Card : <input type="text" name="firstname" placeholder="Tushar" required> <br/>
11          Last Name On Card : <input type="text" name="lastname" placeholder="Khillare" required> <br/>
12          Card Number: <input type="text" name="cardnumber" placeholder="1234 1234 4321 9123" required> <br/>
13          Expire Date (yyyy-MM-dd) : <input type="date" name="expiration" placeholder="2027-10-31"  required> <br/>
14          Security Code : <input type="number" name="securitycode" placeholder="987" required> <br/>
15          <br/>
16          <input type="submit" value="Pay Ticket">
17      </form>
18  </body>
19  </html>
```

6.Registeration.jsp

```html
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <meta charset="UTF-8">
5  <title>Flight Registration Page</title>
6  </head>
7  <body>
8  <center>
9      <h1>Flight Registration Page</h1>
10     <hr>
11     </br>
12     </br>
13     <form name="flightRegistraton" method="POST" action="Registeration">
14         Flight ID : <input type="number" name="flightid" placeholder="12" required> <br/>
15         First Name : <input type="text" name="firstname" placeholder="Tushar" required> <br/>
16         Last Name : <input type="text" name="lastname" placeholder="Khillare" required> <br/>
17         Email : <input type="email" name="email" placeholder="tusharkhillare2015@gmail.com" required> <br/>
18         Birthday (YYYY-MM-DD) : <input type="text" name="birthdate" placeholder="1999-10-07" required> <br/>
19         <br/>
20         <input type="submit" value="Submit Flight Registration">
21     </form>
22     </center>
23 </body>
24 </html>
```