

# Assignment-Hibernate

## 1. หน้าจอ

### 1.1 หน้าแรก

The screenshot displays a web browser window with the address bar showing `localhost:8080/TimeTableHiber/faces/TimeSearch.jsp`. The page title is "JSP Page". The main content area has a light blue background and is titled "TIME TRAIN TABLE" in a large, bold, serif font.

Below the title, there are three distinct form sections:

- Add TimeTrain Form**: This section contains a vertical stack of six input fields labeled "Time ID:", "Train ID:", "Province:", "Price:", "Date :", and "Time:". To the right of these fields is a "Submit" button and a link labeled "View Add".
- TimeTrain Search Form**: This section features a label "Enter Time-ID:" followed by an input field and a "Search Time ID" button.
- Search By Text Form**: This section features a label "Enter Province:" followed by an input field and a "Search Province" button.

The browser's taskbar at the bottom shows various application icons and the system clock indicating 11:09 PM on ENG.

## 1.2ฟอร์มการเพิ่ม(Add TimeTrain Form)

**Add TimeTrain Form**

Time ID:	<input type="text"/>
Train ID:	<input type="text"/>
Province:	<input type="text"/>
Price:	<input type="text"/>
Date :	<input type="text"/>
Time:	<input type="text"/>

[View Add](#)

### 1.3 ผลการค้นหา(Search By Text Form)

**Search By Text Form**

Enter Province:

#### เมื่อกดค้นหา

Time ID	Train ID	Time	Date	Province	Price
1	1	08.00	03-10-2016	Phuket Phangnga Suratthani	300
2	1	12.00	03-10-2016	Phuket Phangnga Suratthani	300
3	1	19.00	03-10-2016	Phuket Phangnga Suratthani	300
7	1	12.20	30/10/2016	Phuket Nakornsrihammarat	600
9	2	11.35	31/10/2016	Trang Phuket	230
10	2	12.20	31/10/2016	Phuket Nakornsrihammarat	400
11	2	12.25	31/10/2016	Trang Phuket	340
12	2	12.20	31/10/2016	Trang Phuket	300
13	2	23.17	06/11/59	Phuket Nakornsrihammarat	350
Time ID	Train ID	Time	Date	Province	Price

**Search By Text Form**

Enter Province:

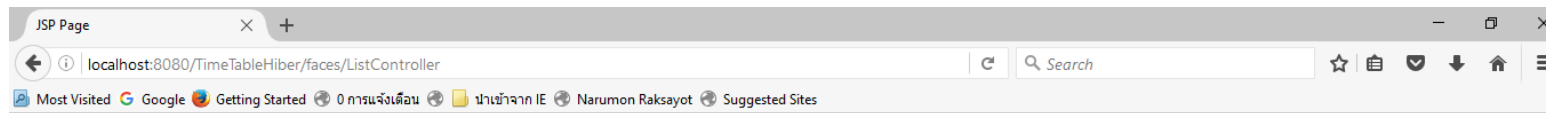
## 1.4 ผลการค้นหา(TimeTrain Search Form)

**TimeTrain Search Form**

Enter Time-ID:

Time ID	10
Date	31/10/2016
Time	12:20
Province	Phuket Nakornsrihammarat
Price	400

## 1.5หน้าแสดง TimeListเมื่อ Add เสร็จ



[Back](#)

### Time List

Time ID	Time	Date	Provice	Price
1	08.00	03-10-2016	Phuket Phangnga Suratthani	300
2	12.00	03-10-2016	Phuket Phangnga Suratthani	300
3	19.00	03-10-2016	Phuket Phangnga Suratthani	300
4	08.30	03-10-2016	Suratthani Trang Songkla	500
5	12.30	03-10-2016	Suratthani Trang Songkla	500
6	19.30	03-10-2016	Suratthani Trang Songkla	500
7	12.20	30/10/2016	Phuket Nakornsrihammarat	600
8	11.15	31/10/2016	Phatthalung Trang	250
9	11.35	31/10/2016	Trang Phuket	230
10	12.20	31/10/2016	Phuket Nakornsrihammarat	400
11	12.25	31/10/2016	Trang Phuket	340
12	12.20	31/10/2016	Trang Phuket	300
13	23.17	06/11/59	Phuket Nakornsrihammarat	350



**2. โครงสร้างตาราง + ตัวอย่างข้อมูลในตาราง**

TimeID	TrainID	Price	Provice	DateTrain	TimeTrain
1	1	300	Phuket Phangnga Suratthani	03-10-2016	08.00
2	1	300	Phuket Phangnga Suratthani	03-10-2016	12.00
3	1	300	Phuket Phangnga Suratthani	03-10-2016	19.00
4	2	500	Suratthani Trang Songkla	03-10-2016	08.30
5	2	500	Suratthani Trang Songkla	03-10-2016	12.30
6	2	500	Suratthani Trang Songkla	03-10-2016	19.30

### 3. ไฟล์ที่เป็น model ของตาราง (ชื่อตาราง.java)

```
package TimeTable;

// Generated Oct 30, 2016 9:08:33 PM by Hibernate Tools 4.3.1

/**
 * Timetrain generated by hbm2java
 */
public class Timetrain implements java.io.Serializable {

    private int timeld;
    private int trainId;
    private int price;
    private String provice;
    private String dateTrain;
    private String timeTrain;

    public Timetrain() {
    }

    public Timetrain(int timeld, int trainId, int price, String provice) {
        this.timeld = timeld;
        this.trainId = trainId;
        this.price = price;
        this.provice = provice;
    }

    public Timetrain(int timeld, int trainId, int price, String provice, String
dateTrain, String timeTrain) {
        this.timeld = timeld;
```

```
this.trainId = trainId;

this.price = price;

this.provice = provice;

this.dateTrain = dateTrain;

this.timeTrain = timeTrain;
}

public int getTimeld() {
    return this.timeld;
}

public void setTimeld(int timeld) {
    this.timeld = timeld;
}

public int getTrainId() {
    return this.trainId;
}

public void setTrainId(int trainId) {
    this.trainId = trainId;
}

public int getPrice() {
    return this.price;
}

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

public String getProvice() {
    return this.provice;
}
```



```
public void setProvide(String provide) {  
    this.provide = provide;  
}  
  
public String getDateTrain() {  
    return this.dateTrain;  
}  
  
public void setDateTrain(String dateTrain) {  
    this.dateTrain = dateTrain;  
}  
  
public String getTimeTrain() {  
    return this.timeTrain;  
}  
  
public void setTimeTrain(String timeTrain) {  
    this.timeTrain = timeTrain;  
}  
}
```

#### 4. code ไฟล์ Hibernate.cfg.xml

```
<?xml version="1.0" encoding="UTF-8"?>  
<!DOCTYPE hibernate-configuration PUBLIC "-//Hibernate/Hibernate Configuration DTD  
3.0//EN" "http://hibernate.sourceforge.net/hibernate-configuration-3.0.dtd">  
<hibernate-configuration>  
    <session-factory>  
        <property name="hibernate.dialect">org.hibernate.dialect.MySQLDialect</property>  
        <property name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</property>  
        <property  
name="hibernate.connection.url">jdbc:mysql://localhost:3306/trainticket?zeroDateTimeBehav  
ior=convertToNull</property>  
        <property name="hibernate.connection.username">root</property>  
        <property name="hibernate.show_sql">>true</property>
```

```
<property name="hibernate.current_session_context_class">thread</property>
<property
name="hibernate.query.factory_class">org.hibernate.hql.internal.classic.ClassicQueryTranslato
rFactory</property>
<mapping resource="TimeTable/Account.hbm.xml"/>
<mapping resource="TimeTable/Ticket.hbm.xml"/>
<mapping resource="TimeTable/Payment.hbm.xml"/>
<mapping resource="TimeTable/Train.hbm.xml"/>
<mapping resource="TimeTable/Timetrain.hbm.xml"/>
</session-factory>
</hibernate-configuration>
```

## 5. code ไฟล์ Servlet

- **ListController.java**

```
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package TimeTable;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 *
 */
```

```
* @author Saen D Computer
```

```
*/
```

```
public class ListController extends HttpServlet {
```

```
    /**
```

```
     * Processes requests for both HTTP GET and  
     * POST
```

```
     * methods.
```

```
     *
```

```
     * @param request servlet request
```

```
     * @param response servlet response
```

```
     * @throws ServletException if a servlet-specific error occurs
```

```
     * @throws IOException if an I/O error occurs
```

```
    */
```

```
    protected void processRequest(HttpServletRequest request,  
    HttpServletResponse response)
```

```
        throws ServletException, IOException {
```

```
        response.setContentType("text/html;charset=UTF-8");
```

```
        try (PrintWriter out = response.getWriter()) {
```

```
            out.println( "<a href=\"TimeSearch.jsp\"> Back </a>");
```

```
        /* TODO output your page here. You may use following sample code.
```

```
    */
```

```
        HttpSession session = request.getSession(true);
```

```
        try {
```

```
            TimeTableService acs = new TimeTableService();
```

```
            List timeList = acs.getTimeTable(1, 100);
```

```
//    int num = filmList.size();

    session.setAttribute("listResult", timeList);


    } catch (Exception e) {

        e.printStackTrace();

    }

    RequestDispatcher rd =
request.getRequestDispatcher("timelist.jsp");

    rd.forward(request, response);


    }

}


// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click
on the + sign on the left to edit the code.">

/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse
response)

    throws ServletException, IOException {
```

```
        processRequest(request, response);
    }

    /**
     * Handles the HTTP <code>POST</code> method.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse
response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

    /**
     * Returns a short description of the servlet.
     *
     * @return a String containing servlet description
     */
    @Override
    public String getServletInfo() {
        return "Short description";
    } // </editor-fold>

}
```

- **SearchController.java**

```
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package TimeTable;

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 *
 * @author Saen D Computer
 */
public class SearchController extends HttpServlet {

    /**
     * Processes requests for both HTTP GET and
POST
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    protected void processRequest(HttpServletRequest request,
HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            HttpSession session = request.getSession(true);
            try {
                short search_time =
Short.parseShort(request.getParameter("searchValue"));
```

```
TimeTableService acs = new TimeTableService();
Timetrain time_obj = acs.searchTime(search_time);

session.setAttribute("searchResult", time_obj);

RequestDispatcher rd =
request.getRequestDispatcher("TimeSearch.jsp");
rd.forward(request, response);

    } finally {
        out.close();
    }

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet
methods. Click on the + sign on the left to edit the code.">
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doGet(HttpServletRequest request,
HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Handles the HTTP <code>POST</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doPost(HttpServletRequest request,
HttpServletResponse response)
```

```
        throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Returns a short description of the servlet.
 *
 * @return a String containing servlet description
 */
@Override
public String getServletInfo() {
    return "Short description";
} // </editor-fold>

}
```

- **TimeTableService.java**

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

package TimeTable;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.hibernate.Query;
import org.hibernate.Session;
import org.hibernate.Transaction;

/**
```



```
*  
  
* @author Saen D Computer  
  
*/  
  
public class TimeTableService extends HttpServlet {  
  
    /**  
     * Processes requests for both HTTP <code>GET</code> and <code>POST</code>  
     * methods.  
     *  
     * @param request servlet request  
     * @param response servlet response  
     * @throws ServletException if a servlet-specific error occurs  
     * @throws IOException if an I/O error occurs  
     */  
    public List getTimeTable(int startID, int endID) {  
        List timeList = null;  
        Session session = null;  
        try {  
            session = HibernateUtil.getSessionFactory().openSession();  
            org.hibernate.Transaction tx = session.beginTransaction();  
            Query q = session.createQuery("from Timetrain where timelid between " +  
startID + " and " + endID + "");  
            timeList = (List<Timetrain>) q.list();  
        } catch (Exception e) {  
            e.printStackTrace();  
        }  
        return timeList;  
    }  
    public List searchText(String search_province) {  
        String message = null;  
        Session session = null;
```

```
Transaction tx = null;

List time = null;

try {
    session = HibernateUtil.getSessionFactory().openSession();
    tx = session.getTransaction();
    tx.begin();

    Query query = session.createQuery("from Timetrain where Province Like
'%" + search_province + "%'");

    time = (List<Timetrain>) query.list();
    tx.commit();
} catch (Exception e) {
    if (tx != null) {
        tx.rollback();
    }

    e.printStackTrace();
} finally {
    session.close();
}

return time;
}

public Timetrain searchTime(short search_time)
{
    String message=null;
    Session session=null;
    Transaction tx = null;
    Timetrain time = null;

    try {
        session=HibernateUtil.getSessionFactory().openSession();
        tx = session.getTransaction();
        tx.begin();

        Query query = session.createQuery("from Timetrain where TimeId =
"+search_time);
```

```
        time = (Timetrain)query.uniqueResult();

        tx.commit();
    } catch (Exception e) {
        if (tx != null) {
            tx.rollback();
        }
        e.printStackTrace();
    } finally {
        session.close();
    }
    return time;
}

public String addTimeTable(Timetrain TimeId) {
    String message = null;
    Session session = null;
    try {
        session
            = HibernateUtil.getSessionFactory().openSession();

        Transaction tx = session.getTransaction();
        tx.begin();
        session.save(TimeId);
        tx.commit();
        message = "Saved Data";
        return message;
    } catch (Exception e) {

        return (e.getMessage());
    } finally {
        session.close();
    }
}
```

```
protected void processRequest(HttpServletRequest request, HttpServletResponse  
response)
```

```
    throws ServletException, IOException {  
        response.setContentType("text/html;charset=UTF-8");  
        try (PrintWriter out = response.getWriter()) {  
            /* TODO output your page here. You may use following sample code. */  
            out.println("<!DOCTYPE html>");  
            out.println("<html>");  
            out.println("<head>");  
            out.println("<title>Servlet TimeTableService</title>");  
            out.println("</head>");  
            out.println("<body>");  
            out.println("<h1>Servlet TimeTableService at " + request.getContextPath() +  
"</h1>");  
            out.println("</body>");  
            out.println("</html>");  
        }  
    }  
}
```

```
// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the +  
sign on the left to edit the code.">
```

```
/**  
 * Handles the HTTP <code>GET</code> method.  
 *  
 * @param request servlet request  
 * @param response servlet response  
 * @throws ServletException if a servlet-specific error occurs  
 * @throws IOException if an I/O error occurs  
 */
```

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

public String getServletInfo() {

return "Short description";

}// </editor-fold>

}

- **AddTimetableController.java**

```
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package TimeTable;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.Date;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 *
 * @author Saen D Computer
 */
public class AddTimetableController extends HttpServlet {

    /**
     * Processes requests for both HTTP GET and
POST
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    protected void processRequest(HttpServletRequest request,
HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code.
            */

            out.println("add new timetable success");
```

```
HttpSession session = request.getSession(true);

int TimeID = Integer.parseInt(request.getParameter("TimeID"));
int TrainID = Integer.parseInt(request.getParameter("TrainID"));
String Province = request.getParameter("Province");
int Price = Integer.parseInt(request.getParameter("Price"));
String DateTrain = request.getParameter("Date");
String TimeTrain = request.getParameter("Time");

Timetrain ac = new
Timetrain(TimeID,TrainID,Price,Province,DateTrain,TimeTrain);
//ac.setFirstName(firstname);
//ac.setLastName(lastname);

TimeTableService acs = new TimeTableService();
String resultMessage = acs.addTimeTable(ac);

RequestDispatcher rd
    = request.getRequestDispatcher("TimeSearch.jsp?message=" +
resultMessage
    );
request.setAttribute("searchResult", null);
rd.forward(request, response);
}
}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click
on the + sign on the left to edit the code.">
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse
response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Handles the HTTP <code>POST</code> method.
 *
 * @param request servlet request
 * @param response servlet response
```

```
* @throws ServletException if a servlet-specific error occurs
* @throws IOException if an I/O error occurs
*/
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse
response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Returns a short description of the servlet.
 *
 * @return a String containing servlet description
 */
@Override
public String getServletInfo() {
    return "Short description";
} // </editor-fold>

}
```

- **TextController.java**

```
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package TimeTable;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
/**
 *
 * @author Saen D Computer
 */
public class TextController extends HttpServlet {
```



```
/**
 * Processes requests for both HTTP <code>GET</code> and
<code>POST</code>
 * methods.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
protected void processRequest(HttpServletRequest request,
HttpServletResponse response)
    throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    try (PrintWriter out = response.getWriter()) {
        /* TODO output your page here. You may use following sample
code. */
        HttpSession session = request.getSession(true);
        try {
            String search_province =
request.getParameter("searchTextValue");

            TimeTableService acs = new TimeTableService();
            List time_obj = acs.searchText(search_province);

            session.setAttribute("searchResult", time_obj);

            RequestDispatcher rd =
request.getRequestDispatcher("TimeTextSearch.jsp");
            rd.forward(request, response);

        } finally {
            out.close();
        }
    }
}

// <editor-fold defaultstate="collapsed" desc="HttpServlet
methods. Click on the + sign on the left to edit the code.">
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
```

```

    * @param response servlet response
    * @throws ServletException if a servlet-specific error occurs
    * @throws IOException if an I/O error occurs
    */
    @Override
    protected void doGet(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

    /**
     * Handles the HTTP <code>POST</code> method.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    @Override
    protected void doPost(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

    /**
     * Returns a short description of the servlet.
     *
     * @return a String containing servlet description
     */
    @Override
    public String getServletInfo() {
        return "Short description";
    }
}

```

- **ListController.java**

```
/*
 * To change this license header, choose License Headers in Project
 * Properties.
```

```
* To change this template file, choose Tools | Templates
* and open the template in the editor.
```

```
*/
```

```
package TimeTable;
```

```
import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
```

```
/**
```

```
*
```

```
* @author Saen D Computer
```

```
*/
```

```
public class ListController extends HttpServlet {
```

```
    /**
```

```
    * Processes requests for both HTTP <code>GET</code> and
    <code>POST</code>
```

```
    * methods.
```

```
    *
```

```
    * @param request servlet request
```

```
    * @param response servlet response
```

```
    * @throws ServletException if a servlet-specific error occurs
```

```
    * @throws IOException if an I/O error occurs
```

```
    */
```

```
    protected void processRequest(HttpServletRequest request,
    HttpServletResponse response)
```

```
    throws ServletException, IOException {
```

```
        response.setContentType("text/html;charset=UTF-8");
```

```
        try (PrintWriter out = response.getWriter()) {
```

```
            out.println( "<a href=\"TimeSearch.jsp\"> Back </a>");
```

```
        /* TODO output your page here. You may use following sample
        code. */
```

```
            HttpSession session = request.getSession(true);
```

```
try {

    TimeTableService acs = new TimeTableService();
    List timeList = acs.getTimeTable(1, 100);
    // int num = filmList.size();
    session.setAttribute("listResult", timeList);

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

RequestDispatcher rd =
request.getRequestDispatcher("timelist.jsp");
rd.forward(request, response);

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet
methods. Click on the + sign on the left to edit the code.">
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doGet(HttpServletRequest request,
HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Handles the HTTP <code>POST</code> method.
 *
 * @param request servlet request
```

```
* @param response servlet response
* @throws ServletException if a servlet-specific error occurs
* @throws IOException if an I/O error occurs
*/
@Override
protected void doPost(HttpServletRequest request,
    HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Returns a short description of the servlet.
 *
 * @return a String containing servlet description
 */
@Override
public String getServletInfo() {
    return "Short description";
} // </editor-fold>

}
```

- **Train.java**

```
package TimeTable;

// Generated Oct 30, 2016 9:08:33 PM by Hibernate Tools 4.3.1

/**
 * Train generated by hbm2java
 */
public class Train implements java.io.Serializable {

    private int trainId;

    private String name;

    private String type;
```

```
private int numPsg;

public Train() {
}

public Train(int trainId, int numPsg) {
    this.trainId = trainId;
    this.numPsg = numPsg;
}

public Train(int trainId, String name, String type, int numPsg) {
    this.trainId = trainId;
    this.name = name;
    this.type = type;
    this.numPsg = numPsg;
}

public int getTrainId() {
    return this.trainId;
}

public void setTrainId(int trainId) {
    this.trainId = trainId;
}

public String getName() {
    return this.name;
}

public void setName(String name) {
    this.name = name;
}
```

```
public String getType() {  
    return this.type;  
}  
  
public void setType(String type) {  
    this.type = type;  
}  
  
public int getNumPsg() {  
    return this.numPsg;  
}  
  
public void setNumPsg(int numPsg) {  
    this.numPsg = numPsg;  
}  
}
```

## 6. code ไฟล์ JSP ทั้งหมด

- **timeSearch.jsp**

```
<%--  
    Document : TimeSearch  
    Created on : Oct 30, 2016, 9:35:54 PM  
    Author : Saen D Computer  
--%>  
  
<!DOCTYPE html>  
<%@page import="TimeTable.Timetrain"%>  
<%@page contentType="text/html" pageEncoding="UTF-8"%>  
<!DOCTYPE html>  
<html>  
    <head>  
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  
        <title>JSP Page</title>  
    </head>
```





```
<br><br>
</form>

<%
    try {
        // Create a session object if it is already not created.
        Timetrain acc = (Timetrain) session.getAttribute("searchResult");

        if (acc != null) {
%>

<table border="1">

    <tbody>
        <tr>
            <td>Time ID</td>
            <td><% out.println(acc.getTimeId()); %></td>
        </tr>
        <tr>
            <td>Date </td>
            <td><% out.println(acc.getDateTrain()); %></td>
        </tr>
        <tr>
            <td>Time</td>
            <td><% out.println(acc.getTimeTrain()); %></td>
        </tr>
        <tr>
            <td>Province</td>
            <td><% out.println(acc.getProvice()); %></td>
        </tr>
        <tr>
            <td>Price</td>
            <td><% out.println(acc.getPrice()); %></td>
        </tr>
    </tbody>
</table>

<%
    }

    } catch (Exception e) {
        out.println(e.getMessage());
    }

%>

<br><br>
```

```
<h2> Search By Text Form</h2>
<form name="searchForm" action="TextController">
  Enter Province: <input type="text" name="searchTextValue" value=""
>
  <input type="submit" value="Search Province" name="searchButton"
/>
<br><br>
</form>
<br><br><br><br>
</center>
</body>

</html>
```

- **TimeTextSearch.jsp**

```
<%--
  Document   : TimeTetSearch
  Created on : Nov 6, 2016, 10:09:34 PM
  Author      : Saen D Computer
--%>

<!DOCTYPE html>
<%@page import="java.util.List"%>
<%@page import="TimeTable.Timetrain"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>

    <center>

      <h1>TIME TRAIN TABLE</h1>
      <div style="background-color: #BBCCFF; width:100%;">
        <br />
        <h2>Add TimeTrain Form</h2>

        <form name="formAddActor" action="AddTimetableController">
          Time ID:  <input type="text" name="TimeID" value="" /> <br>
          Train ID: <input type="text" name="TrainID" value="" /> <br>
          Province: <input type="text" name="Province" value="" /> <br>
```

Price:       <br>  
Date :       <br>  
Time:       <br>

[illegible][illegible]

```
<a href="ListController">View Add</a>
```

&lt;/form&gt;

<br><br>

```
<h2>TimeTrain Search Form</h2>
<form name="searchForm" action="SearchController">
  Enter Time-ID:<input type="text" name="searchValue" value="" >
  <input type="submit" value="Search Time ID" name="searchButton"
/>
```

<br><br>

&lt;/form&gt;

```
<%  
    try {  
        // Create a session object if it is already not created.  
        List<Timetrain> timeList = (List<Timetrain>  
session.getAttribute("searchResult");  
        if (timeList != null) {
```

%>

```

<tbody>
  <tr>
    <td>Time ID</td>
    <td>Train ID</td>
    <td>Time</td>
    <td>Date</td>
    <td>Province</td>
    <td>Price</td>
  </tr>
  <% for (Timetrain acc : timeList){ %>
    <tr>
      <td><% out.println(acc.getTimeId()); %></td>
      <td><% out.println(acc.getTrainId()); %></td>
      <td><% out.println(acc.getTimeTrain()); %></td>
      <td><% out.println(acc.getDateTrain()); %></td>
      <td><% out.println(acc.getProvice()); %></td>
      <td><% out.println(acc.getPrice()); %></td>
    </tr>
  <% } %>
  <tr>
    <td>Time ID</td>
    <td>Train ID</td>
    <td>Time</td>
    <td>Date</td>
    <td>Province</td>
    <td>Price</td>
  </tr>
</tbody>
</table>

<%
  }

  } catch (Exception e) {
    out.println(e.getMessage());
  }

%>

<br><br>
<h2> Search By Text Form</h2>
<form name="searchForm" action="TextController">
  Enter Province: <input type="text" name="searchTextValue" value=""
>
  <input type="submit" value="Search Province" name="searchButton"
/>
<br><br>

```

```

        </form>
        <br><br><br><br>
    </center>
</body>

```

```

</html>

```

- **timelist.jsp**

```

<%--
    Document   : timelist
    Created on : Oct 30, 2016, 9:19:12 PM
    Author    : Saen D Computer
--%>

<%@page import="TimeTable.Timetrain"%>
<%@page import="java.util.List"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Page</title>
    </head>
    <body>
        <h1>Time List</h1>

        <%
            try {

                List<Timetrain> timeList = (List<Timetrain>)
session.getAttribute("listResult");

                if (timeList != null) {
                    //  out.println("not null");
                    //  out.println(filmList.size());

                }

                %>
                <table border="1">

                    <tbody>
                        <tr>
                            <td>Time ID</td>
                            <td>Time </td>
                            <td>Date</td>
                            <td>Provice</td>
                            <td>Price</td>

                        </tr>

```

```
<%           for (Timetrain acc : timeList) {
%>
<tr>
    <td><% out.println(acc.getTimeId()); %></td>
    <td><% out.println(acc.getTimeTrain()); %></td>
    <td><% out.println(acc.getDateTrain()); %></td>
    <td><% out.println(acc.getProvice()); %></td>
    <td><% out.println(acc.getPrice()); %></td>

</tr>
<% } %>
</tbody>
</table>

<%

    } else {
        out.println("return null");
    }
} catch (Exception e) {
    e.printStackTrace();
    out.println("error");
}

%>

</body>
</html>
```