使用hibernate和struts2实现分页功能 - xiaoluo501395377 - 博客园

想着每天能学个新东西,今天准备了这个hibernate+struts2实现页面的分页功能,在这里,首先要感谢 http://www.blog.java.net/rongxh7/archive/2008/11/29/243456.html

这位博友发表的博文,通过对他代码的阅读,从而自己实现了网页分页功能,以下是源代码,如大家有需要,可以回复我,我会放出源代码供大家下载!

1. DAO层接口的设计,定义一个PersonDAO接口,里面声明了两个方法:

```
publicinterface PersonDAO{     public List queryByPage(String hql, int offset, int pageSize);          publicint
getAllRowCount(String hql);}
```

2. DAO层接口的实现类PersonDAOImpl类,将其两个方法实现出来:



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```
publicclass PersonDAOImpl implements PersonDAO{  /**  * 通过hql语句得到数据库中记录总数  */
Transaction tx =
null; int allRows = 0; try
                             {
     tx = session.beginTransaction();
Query query = session.createQuery(hql);
                                     allRows = query.list().size();
               } catch (Exception e) {
                                                 if(tx != null)
tx.commit();
                          e.printStackTrace(); } finally
tx.rollback();
                                                               {
HibernateUtil.closeSession(session); } return allRows; } /** * 使用hibernate提供的分页功
能,得到分页显示的数据  */  @SuppressWarnings("unchecked")  @Override  public List queryByPage(String hql, int
                   Session session = HibernateUtil.openSession(); Transaction tx = null;
offset, int pageSize) {
                   List list = null:
                                                                      Query
query = session.createQuery(hql).setFirstResult(offset).setMaxResults(pageSize);
               tx.commit();
                                        } catch (Exception e)
                                                                {
query.list();
if(tx != null)
              {
                       tx.rollback():
                                         }
                                                 e.printStackTrace();
  finally
             return list;
} }
```

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3. 定义了一个PageBean(每一页所需要的内容都存放在这个PageBean里面),里面用来存放网页每一页显示的内容:



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```
publicclass PageBean { private List list; //通过hql从数据库分页查询出来的list集合privateint allRows; //总记录数
privateint totalPage; //总页数privateint currentPage; //当前页public List getList() { return list; }
return totalPage; } publicvoid setTotalPage(int totalPage) {    this.totalPage = totalPage;
/**
                        * 得到总页数 * @param pageSize 每页记录数 * @param allRows
this.currentPage = currentPage; }
总记录数 * @return 总页数 */publicint getTotalPages(int pageSize, int allRows) { int totalPage =
(allRows % pageSize == 0)? (allRows / pageSize): (allRows / pageSize) + 1; return totalPage; }
  * 得到当前开始记录号   * @param pageSize 每页记录数   * @param currentPage 当前页   * @return*/publicint
return offset; }
           /** * 得到当前页, 如果为0 则开始第一页,否则为当前页 * @param page
currentPage; } }
```

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4. Service层接口设计,定义一个PersonService接口,里面声明了一个方法,返回一个PageBean:

publicinterface PersonService{ public PageBean getPageBean(int pageSize, int page);}

5. Service层接口实现类PersonServiceImpl类,实现唯一的方法:



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```
* pageSize为每页显示的记录数 * page为当前显示的网页
                                                                                                                             @Override public PageBean getPageBean(int pageSize,
                                        PageBean pageBean = new PageBean();
                                                                                                                                          String hql = "from Person";
int page)
                       {
allRows = personDAO.getAllRowCount(hql);
                                                                                                     int totalPage = pageBean.getTotalPages(pageSize, allRows);
int currentPage = pageBean.getCurPage(page);
                                                                                                                  int offset = pageBean.getCurrentPageOffset(pageSize,
currentPage);
                                                   List list = personDAO.queryByPage(hql, offset, pageSize);
pageBean.setList(list); pageBean.setAllRows(allRows);
                                                                                                                                 pageBean. setCurrentPage(currentPage);
pageBean. setTotalPage(totalPage);
                                                                                           return pageBean;
                                                                                                                                  }}
                                                                                                                复制代码
6. Action层设计,定义一个PersonAction:
                                                                                                                复制代码
\verb"public class PersonAction extends ActionSupport" \{
                                                                                                private PersonService personService = new PersonServiceImpl();
privateint page; publicint getPage() { return page; } publicvoid setPage(int page)
                                                                     public String execute() throws Exception {
                                                                                                                                                                            //表示每页显示5条记录,page
this.page = page;
                                    }
                                             @Override
表示当前网页
                                     PageBean pageBean = personService.getPageBean(5, page);
                                                                                                                                                                         HttpServletRequest request =
ServletActionContext.getRequest();
                                                                                             request.setAttribute("pageBean", pageBean);
SUCCESS; }}
                                                                                                                复制代码
7. 辅助类设计,HibernateUtil:
                                                                                                                复制代码
publicclass HibernateUtil{      privatestatic SessionFactory sessionFactory;
                                                                                                                                                         static { sessionFactory =
new Configuration().configure().buildSessionFactory();
                                                                                                                       publicstatic Session openSession()
Session session = sessionFactory.openSession();
                                                                                                                       return session; }
                                                                                                                                                                            publicstaticvoid
closeSession(Session session) {
                                                                          if(session != null)
                                                                                                                                 {
                                                                                                                                                        session.close(); } }
                                                                                                            复制代码
8. 最后也就是分页页面显示pagePerson. jsp:
                                                                                                                复制代码
<%@ page language="java" import="java.util.*" pageEncoding="UTF-8"%><%@ taglib prefix="s" uri="/struts-tags"%><html>
<head><base href="<%=basePath%>"><title>My JSP 'pagePerson.jsp' starting pagetitle><meta http-equiv="pragma"</pre>
content="no-cache"><meta http-equiv="cache-control" content="no-cache-control" conte
http-equiv="keywords" content="keyword1, keyword2, keyword3"><meta http-equiv="description" content="This is my page">
if(page ><s:property value="#request.pageBean.totalPage"/>)
alert("你输入的页数大于最大页数,页面将跳转到首页!");
                                                                                                                                                                   window. document. location. href
="personAction":
                                                                                          returnfalse:
                                                                                                                                       }
                                                                                                                                                                                        returntrue:
script>head>\body>\h1>\font color="blue">分页查询font>h1>\fn>\table border="1" align="center" bordercolor="yellow"
<s:property value="#person.id"/>th><s:property value="#person.name"/>th><s:property
value="#person.age"/>th>tr>s:iterator>table><center><font size="5">共<font color="red"><s:property
value="#request.pageBean.totalPage"/>font>页 font> 〈font size="5">共〈font color="red"><s:property
value="#request.pageBean.allRows"/>font>条记录font><br/>br><br:f test="#request.pageBean.currentPage == 1">
                                    s:if><s:else><a href="personAction.action">首页a> <a href="personAction.action?page=/>">上一页
a>s:else><s:if test="#request.pageBean.currentPage" != #request.pageBean.totalPage"><a href="personAction.action?" + #request.pageBean.totalPage"><a href="personAction.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.action.acti
page=/>">下一页a> 〈a href="personAction.action?page=/>">尾页a>s:if><s:else>
s:else>center><br/>form action="personAction" onsubmit="return validate();"><font size="4">跳转至font><input
type="text" size="2" name="page">页
                                                                                 <input type="submit" value="跳转">form>center>body>html>
                                                                                                                复制代码
```

至此,hibernate+struts2实现网页分页功能代码部分就完毕了,像hibernate与struts的配置文件就不列出来了,那些都不是重点!

页面效果如下:

序号	姓名	年龄
1	person0	10
2	person1	11
3	person2	12
4	person3	13
5	person4	14

共6页 共30条记录

首页 上一页 <u>下一页</u> <u>尾页</u>

跳转至 页 跳转