day32-综合案例

案例一:添加用户

一,案例需求

1. 点击添加用户跳转添加用户页面

显示所有用户

编号	姓名	性别	年龄	籍贯	QQ	邮箱	操作	
1	张三	男	11	广东	766335435	766335435@qq.com	修改 删除	
2	李四	男	12	广东	243424242	243424242@qq.com	修改 删除	
3	王五	女	13	广东	474574574	474574574@qq.com	修改 删除	
4	赵六	女	18	广东	77777777	77777777@qq.com	修改 删除	
5	钱七	女	15	湖南	412132145	412132145@qq.com	修改 删除	
6	王八	男	25	广西	412132775	412132995@qq.com	修改 删除	
	添加用户							

2. 在添加用户页面,点击提交按钮,把数据提交到服务器,保存到数据库

添加用户页面

姓名:
请输入姓名
性别: ◉男 ◎女
年龄:
请输入年龄
推母:
广东
aa :
请输入QQ号码
Email:
请输入邮箱地址
提交 重置 返回

3. 在添加完成,可以查看到新建的用户信息

显示所有用户

编号	姓名	性别	年齡	籍贯	QQ	邮箱	操作
1	张三	男	11	广东	766335435	766335435@qq.com	修改 删除
2	李四	男	12	广东	243424242	243424242@qq.com	修改 删除
3	王五	女	13	广东	474574574	474574574@qq.com	修改 删除
4	赵六	女	18	广东	77777777	77777777@qq.com	修改 删除
5	钱七	女	15	湖南	412132145	412132145@qq.com	修改 删除
6	王八	男	25	广西	412132775	412132995@qq.com	修改 删除
添加用户							

二,技术分析

传统方式的开发一个请求对应一个Servlet:这样的话会导致一个模块的Servlet过多,导致整个项目的Servlet都会很多.能不能做一个处理?让一个**模块**用一个Servlet处理请求.

• 传统方式

查询所有的用户: http://localhost:8080/day32/findAll

添加用户:: http://localhost:8080/day32/add

删除用户: http://localhost:8080/day32/delete

• 以模块为单位创建, 创建一个UserServlet

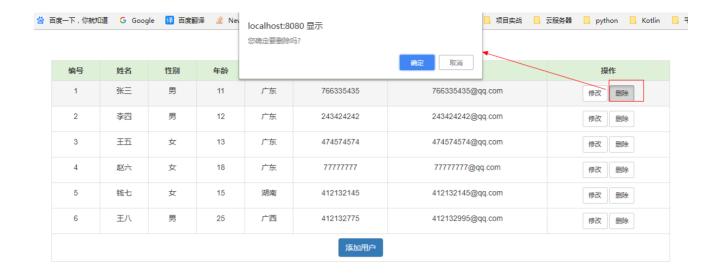
查询所有的用户: http://localhost:8080/dav32/userServlet?method=findAll

添加用户::http://localhost:8080/day32/userServlet?method=add

删除用户:http://localhost:8080/day32/userServlet?method=delete

案例二:删除用户

一,案例需求



点击确定删除之后, 再重新查询所有全部展示,

案例三:分页展示用户

一,案例需求

显示所有联系人

编号	姓名	性别	年龄	籍贯	QQ	邮箱	操作	
1	张三	男	20	广东	44444222	zs@qq.com	修改 删除	
2	张三	男	20	广东	44444222	zs@qq.com	修改 删除	
3	张三	男	20	广东	44444222	zs@qq.com	修改 删除	
4	张三	男	20	广东	44444222	zs@qq.com	修改删除	
5	张三	男	20	广东	44444222	zs@qq.com	修改 删除	
« 1 2 3 4 5 6 7 8 9 »								

• 分页查询出用户信息

二,技术分析

1,数据库操作 limit

```
select * from product limit a,b;

a(从哪里开始查询): a = (当前页码 -1)*b;
b(一页显示的数量): 是由开发者自定义(需求)的; b =2

-- 分页查询用户; 一页显示5条 b=5;
-- limit a ,b; a = (当前页码-1)*b;
-- 第一页 a =0, b = 5
```

```
SELECT * FROM `user` LIMIT 0,5

-- 第二页 a =5, b = 5

SELECT * FROM `user` LIMIT 5,5

-- 第三页 a =10, b = 5

SELECT * FROM `user` LIMIT 10,5
```

2. 分页需要的数据的封装

三,思路分析

四,代码实现

环境准备

• 数据库创建

```
CREATE TABLE user (
  id int primary key auto_increment,
  name varchar(50),
  sex varchar(50),
  age int,
  address varchar(50),
  qq varchar(50),
  email varchar(50)
);
```

```
INSERT INTO `user` (`id`, `name`, `sex`, `age`, `address`, `qq`, `email`) VALUES (null, '张三', '男', 11, '广东', '766335435', '766335435@qq.com'), (null, '李四', '男', 12, '广东', '243424242', '243424242@qq.com'), (null, '王五', '女', 13, '广东', '474574574', '474574574@qq.com'), (null, '赵六', '女', 18, '广东', '77777777', '7777777@qq.com'), (null, '钱七', '女', 15, '湖南', '412132145', '412132145@qq.com'), (null, '王八', '男', 25, '广西', '412132775', '412132995@qq.com');
```

C3P0Utlis

```
public class C3p0Utils {
    private static DataSource ds=new ComboPooledDataSource();
    public static DataSource getDs(){
        return ds;
    }
}
```

• 需要导入C3P0,JDBC,BootStrap,jstl包

```
web
> CSS
> fonts
> is
WEB-INF
  ∨ III lib
        bcprov-jdk15on-1.49.jar
     > c3p0-0.9.1.2.jar
     > c3p0-0.9.1.2-jdk1.3.jar
     > c3p0-0.9.5.2.jar
     > c3p0-oracle-thin-extras-0.9.1.2
     > commons-beanutils-1.8.3.jar
     > commons-beanutils-bean-colle
     > commons-io-1.4.jar
     > commons-logging-1.1.1.jar
     > commons-logging-1.2.jar
     > jstl.jar
     > mchange-commons-java-0.2.1
     > mysql-connector-java-5.1.37-b
     > mysql-connector-java-5.1.39-b
     > spring-beans-5.0.0.RELEASE.ja
       spring-core-5.0.0.RELEASE.jar
     > spring-jdbc-5.0.0.RELEASE.jar
     > spring-tx-5.0.0.RELEASE.jar
        standard.jar
     > ValidateCode.jar
```

Web前端页面

• 首页index

• 单页查询list

```
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
```

```
<!DOCTYPE html>
<!-- 网页使用的语言 -->
<html lang="zh-CN">
<head>
  <!-- 指定字符集 -->
  <meta charset="utf-8">
  <!-- 使用Edge最新的浏览器的渲染方式 -->
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <!-- viewport视口:网页可以根据设置的宽度自动进行适配,在浏览器的内部虚拟一个容器,容器的宽度与设备
的宽度相同。
  width: 默认宽度与设备的宽度相同
  initial-scale: 初始的缩放比,为1:1 -->
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <!-- 上述3个meta标签*必须*放在最前面,任何其他内容都*必须*跟随其后! -->
  <title>显示所有用户</title>
  <!-- 1. 导入CSS的全局样式 -->
  <link href="css/bootstrap.min.css" rel="stylesheet">
  <!-- 2. jQuery导入,建议使用1.9以上的版本 -->
  <script src="js/jquery-2.1.0.min.js"></script>
  <!-- 3. 导入bootstrap的js文件 -->
  <script src="js/bootstrap.min.js"></script>
  <style type="text/css">
     td, th {
        text-align: center;
     }
  </style>
</head>
<body>
<div class="container">
  <h3 style="text-align: center">显示所有用户</h3>
  编号
        姓名
        性别
        年龄
        籍贯
        >00
        邮箱
        操作
     <c:forEach items="${list}" var="u">
        ${u.id}
           ${u.name}
           ${u.sex}
           ${u.age}
           ${u.address}
           ${u.qq}
           ${u.email}
            <a class="btn btn-default btn-sm"
```

```
href="JavaScript:void(0)"onclick="updateuser(${u.id})">修改</a>&nbsp;
                 <a class="btn btn-default btn-sm" href="JavaScript:void(0)"</pre>
onclick="deleteById(${u.id})">删除</a>
              </c:forEach>
       >
          <a class="btn btn-primary"</pre>
href="${pageContext.request.contextPath }/add.jsp">添加用户</a>
       </div>
<script>
   //创建函数响应删除的点击事件
   function deleteById(id){
      //弹出确定框
      var flag = window.confirm("您确定要删除吗?");
      //console.log("flag="+flag);
      //点击了确定
       if(flag){
          //请求服务器,需要根据id删除
          location.href="http://localhost/userServlet?method=deleteById&id="+id;
       }
   function updateuser(id){
       location.href="http://localhost/userServlet?method=updateuser&id="+id;
   }
</script>
</body>
</html>
```

分页查询list_page

```
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html lang="zh-CN">
<head>
   <meta charset="utf-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1">
   <title>Bootstrap模板</title>
   <link href="css/bootstrap.min.css" rel="stylesheet">
   <script src="js/jquery-2.1.0.min.js"></script>
   <script src="js/bootstrap.min.js"></script>
   <style type="text/css">
       td, th {
           text-align: center;
   </style>
</head>
<body>
```

```
<div class="container">
   <h3 style="text-align: center">显示所有用户</h3>
   编号
         姓名
         性别
         年龄
         籍贯
         QQ
         邮箱
         操作
      <c:forEach items="${pageBean.list}" var="u">
         ${u.id}
            ${u.name}
            ${u.sex}
            ${u.age}
            ${u.address}
            ${u.qq}
            ${u.email}
            <a class="btn btn-default btn-sm"
href="JavaScript:void(0)"onclick="changegai(${u.id})">修改</a>&nbsp;<a class="btn btn-default
btn-sm" href="JavaScript:void(0)"onclick="deleteid(${u.id})">删除</a>
         </c:forEach>
      >
         <c:if test="${pageBean.curPage == 1}">
                  <a href="JavaScript:void(0)" aria-label="Previous">
<span aria-hidden="true">&laquo;</span></a>
               </c:if>
               <c:if test="${pageBean.curPage > 1}">
                  <a href="http://localhost/userServlet?"</pre>
method=findByPage&curPage=${pageBean.curPage -1}" aria-label="Previous"><span aria-</pre>
hidden="true">&laguo;</span></a>
               </c:if>
               <c:forEach begin="1" end="${pageBean.sumPage}" var="n">
                  <c:if test="${n == pageBean.curPage}">
                     <a href="JavaScript:void(0)">${n}</a>
                  <c:if test="${n != pageBean.curPage}">
                     <a href="http://localhost/userServlet?"</pre>
method=findByPage&curPage=${n}">${n}</a>
                  </c:if>
               </c:forEach>
               <c:if test="${pageBean.curPage == pageBean.sumPage}">
                  <a href="JavaScript:void(0)" aria-label="Next">
<span aria-hidden="true">&raquo;</span></a>
               </c:if>
```

```
<c:if test="${pageBean.curPage < pageBean.sumPage}">
                       <a href="http://localhost/userServlet?"</pre>
method=findByPage&curPage=${pageBean.curPage+1}" aria-label="Next"><span aria-</pre>
hidden="true">»</span></a>
                   </c:if>
                </div>
</body>
<script>
   function deleteid(id){
       var flag = window.confirm("您确定要删除吗?");
       if(flag){
           location.href="http://localhost/userServlet?
method=deletebyid&id="+id+"&curPage=${pageBean.curPage}";
       }
   }
   function changegai(id){
       location.href="http://localhost/userServlet?
method=upuser&id="+id+"&curPage=${pageBean.curPage}";
   }
</script>
</html>
```

msg

• 增加用户页面add

```
</head>
<body>
<div class="container">
   <center><h3>添加用户页面</h3></center>
   <form action="http://localhost/userServlet" method="post">
       <input type="hidden" name="method" value="add"/>
       <div class="form-group">
            <label for="name">姓名:</label>
           <input type="text" class="form-control" id="name" name="name" placeholder="请输入姓
名">
       </div>
       <div class="form-group">
           <label>性别:</label>
           <input type="radio" name="sex" value="男" checked="checked"/>男
           <input type="radio" name="sex" value="女"/>女
       </div>
       <div class="form-group">
           <label for="age">年龄:</label>
           <input type="text" class="form-control" id="age" name="age" placeholder="请输入年龄">
       </div>
       <div class="form-group">
           <label for="address">籍贯:</label>
           <select name="address" class="form-control" id="jiguan">
               <option value="广东">广东</option>
               <option value="广西">广西</option>
               <option value="湖南">湖南</option>
           </select>
       </div>
        <div class="form-group">
           <label for="qq">QQ : </label>
           <input type="text" class="form-control" name="qq" placeholder="请输入QQ号码"/>
       </div>
       <div class="form-group">
            <label for="email">Email: </label>
           <input type="text" class="form-control" name="email" placeholder="请输入邮箱地址"/>
       </div>
       <div class="form-group" style="text-align: center">
           <input class="btn btn-primary" type="submit" value="提交" />
           <input class="btn btn-default" type="reset" value="重置" />
           <input class="btn btn-default" type="button" value="返回" />
       </div>
   </form>
</div>
</body>
</html>
```

• 更新单页update

```
<%@ page language="java" import="java.util.*" pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
```

```
<%
String path = request.getContextPath();
String basePath =
request.getScheme()+"://"+request.getServerName()+":"+request.getServerPort()+path+"/";
%>
<!DOCTYPE html>
<!-- 网页使用的语言 -->
<html lang="zh-CN">
   <head>
       <base href="<%=basePath%>"/>
       <!-- 指定字符集 -->
       <meta charset="utf-8">
       <meta http-equiv="X-UA-Compatible" content="IE=edge">
       <meta name="viewport" content="width=device-width, initial-scale=1">
       <title>修改用户</title>
       <link href="css/bootstrap.min.css" rel="stylesheet">
       <script src="js/jquery-2.1.0.min.js"></script>
       <script src="js/bootstrap.min.js"></script>
   </head>
    <body>
       <div class="container" style="width: 400px;">
       <h3 style="text-align: center;">修改用户</h3>
       <form action="/userServlet" method="post">
       <input type="hidden" name="method" value="updatesrc"/>
     <div class="form-group">
       <label for="name">姓名:</label>
       <input type="text" class="form-control" id="name" name="name" placeholder="请输入姓名" />
     </div>
     <div class="form-group">
       <label>性别:</label>
         <input type="radio" name="sex" value="男" />男
           <input type="radio" name="sex" value="女" />女
     </div>
     <div class="form-group">
       <label for="age">年龄:</label>
       <input type="text" class="form-control" id="age" name="age" placeholder="请输入年龄" />
     </div>
     <div class="form-group">
       <label for="address">籍贯:</label>
        <select name="address" class="form-control" >
           <option value="广东">广东</option>
           <option value="广西">广西</option>
           <option value="湖南">湖南</option>
       </select>
     </div>
     <div class="form-group">
       <label for="qq">QQ : </label>
```

• 更新多页uppagedate

```
<%
String path = request.getContextPath();
String basePath =
request.getScheme()+"://"+request.getServerName()+":"+request.getServerPort()+path+"/";
<!DOCTYPE html>
<!-- 网页使用的语言 -->
<html lang="zh-CN">
   <head>
        <base href="<%=basePath%>"/>
        <!-- 指定字符集 -->
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <title>修改用户</title>
        <link href="css/bootstrap.min.css" rel="stylesheet">
        <script src="js/jquery-2.1.0.min.js"></script>
        <script src="js/bootstrap.min.js"></script>
    </head>
    <body>
        <div class="container" style="width: 400px;">
        <h3 style="text-align: center;">修改用户</h3>
        <form action="/userServlet" method="post">
        <input type="hidden" name="method" value="srcupdate"/>
      <div class="form-group">
        <label for="name">姓名:</label>
        <input type="text" class="form-control" id="name" name="name" placeholder="请输入姓名" />
      </div>
      <div class="form-group">
```

```
<label>性别:</label>
         <input type="radio" name="sex" value="男" />男
           <input type="radio" name="sex" value="女" />女
     </div>
     <div class="form-group">
       <label for="age">年龄:</label>
       <input type="text" class="form-control" id="age" name="age" placeholder="请输入年龄" />
     </div>
     <div class="form-group">
       <label for="address">籍贯:</label>
        <select name="address" class="form-control" >
           <option value="广东">广东</option>
           <option value="广西">广西</option>
           <option value="湖南">湖南</option>
       </select>
     </div>
     <div class="form-group">
       <label for="qq">QQ : </label>
       <input type="text" class="form-control" name="qq" placeholder="请输入QQ号码"/>
     </div>
     <div class="form-group">
       <label for="email">Email : </label>
       <input type="text" class="form-control" name="email" placeholder="请输入邮箱地址"/>
     </div>
        <div class="form-group" style="text-align: center">
           <input class="btn btn-primary" type="submit" value="提交" />
           <input class="btn btn-default" type="reset" value="重置" />
           <input class="btn btn-default" type="button" value="返回"/>
        </div>
       </form>
       </div>
   </body>
</html>
```

Servlet

• UserServlet主类

```
@WebServlet("/userServlet")
public class UserServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        doGet(request,response);
    }
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        response.setContentType("text/html; charset=utf-8");
```

```
request.setCharacterEncoding("utf-8");
        String method = request.getParameter("method");
        if("findAll".equals(method)) {
            findALLQ(request, response);
        }else if("add".equals(method)){
            addU(request, response);
        }else if("findByPage".equals(method)){
            try {
                int curPage =Integer.parseInt(request.getParameter("curPage"));
                Service ss=new Service();
                pageBean pb=ss.getpage(curPage);
                request.setAttribute("pageBean",pb);
                request.getRequestDispatcher("/list_page.jsp").forward(request,response);
            } catch (Exception e) {
                e.printStackTrace();
        }else if("deleteById".equals(method)){
            deleteit(request, response);
        }else if("updateuser".equals(method)){
            int id = Integer.parseInt(request.getParameter("id"));
            request.getSession().setAttribute("id",id);
            request.getRequestDispatcher("/update.jsp").forward(request,response);
        }else if("updatesrc".equals(method)){
            updateshu(request, response);
        }else if("deletebyid".equals(method)){
            dele(request, response);
        }else if("upuser".equals(method)){
            int id = Integer.parseInt(request.getParameter("id"));
            int curPage=Integer.parseInt(request.getParameter("curPage"));
            request.getSession().setAttribute("curPage",curPage);
            request.getSession().setAttribute("id",id);
            request.getRequestDispatcher("/uppagedate.jsp").forward(request,response);
        }else if("srcupdate".equals(method)){
            shuupdate(request, response);
        }
   }
//多页用户修改
   private void shuupdate(HttpServletRequest request, HttpServletResponse response) {
        try {
            String name = request.getParameter("name");
            String sex = request.getParameter("sex");
            int age = Integer.parseInt(request.getParameter("age"));
            String address = request.getParameter("address");
            String qq = request.getParameter("qq");
            String email = request.getParameter("email");
            int id = (int) request.getSession().getAttribute("id");
            int curPage = (int) request.getSession().getAttribute("curPage");
            Service ss=new Service();
            int changeupdate = ss.changeupdate(id, name, sex, age, address, qq, email);
            System.out.println("更改成功数为:"+changeupdate);
            response.sendRedirect("/userServlet?method=findByPage&curPage="+curPage);
        } catch (Exception e) {
```

```
e.printStackTrace():
        }
   }
//多页删除用户
    private void dele(HttpServletRequest request, HttpServletResponse response) {
        try {
            int id =Integer.parseInt(request.getParameter("id"));
            int curPage =Integer.parseInt(request.getParameter("curPage"));
            Service ss=new Service();
            ss.deletesrc(id);
            response.sendRedirect("/userServlet?method=findByPage&curPage="+curPage);
        } catch (Exception e) {
           e.printStackTrace();
        }
   }
//单页修改用户
    private void updateshu(HttpServletRequest request, HttpServletResponse response) {
        try {
            String name = request.getParameter("name");
            String sex = request.getParameter("sex");
            int age = Integer.parseInt(request.getParameter("age"));
            String address = request.getParameter("address");
            String qq = request.getParameter("qq");
            String email = request.getParameter("email");
           int id = (int) request.getSession().getAttribute("id");
           Service ss=new Service();
            int changeupdate = ss.changeupdate(id, name, sex, age, address, qq, email);
            System.out.println("更改成功数为:"+changeupdate);
            response.sendRedirect("/userServlet?method=findAll");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
//单页删除用户
    public void deleteit(HttpServletRequest request, HttpServletResponse response) {
        try {
            int id =Integer.parseInt(request.getParameter("id"));
           Service ss=new Service();
            ss.deletesrc(id);
            response.sendRedirect("/userServlet?method=findAll");
        } catch (Exception e) {
            e.printStackTrace();
        }
//单页查询所有记录
    public void findALLQ(HttpServletRequest request, HttpServletResponse response){
        try {
            Service sc = new Service();
            List list = sc.getList();
            request.setAttribute("list", list);
            request.getRequestDispatcher("/list.jsp").forward(request, response);
        } catch (Exception e) {
```

```
e.printStackTrace();
       }
   }
   //单页增加用户,通过页面链接传来request
   public void addU(HttpServletRequest request, HttpServletResponse response){
       try {
           Map<String, String[]> map = request.getParameterMap();
           User user=new User();
           BeanUtils.populate(user,map);
           Service ss=new Service();
           ss.addUser(user);
           response.sendRedirect("/userServlet?method=findAll");
       } catch (Exception e) {
           e.printStackTrace();
   }
}
```

• pageBean

```
public class pageBean {
    List list;
    int curPage;//当前页
    int sumPage;
    int count;
    int curSize;
构造get/set方法
}
```

• 规定每页显示几条数据PerCount

```
public class PerCount {
   public static int percount=5;
}
```

User

```
public class User {
    private int id;
    private String name;
    private String sex;
    private int age;
    private String address;
    private String qq;
    private String email;
    构造get/set方法
    构造函数空参满参
    toString()方法
    }
```

业务层Service

```
public class Service {
    public List getList()throws Exception{
        Dao dao=new Dao();
        return dao.getUser();
    public void addUser(User user) throws Exception {
        Dao dao=new Dao();
        dao.addUser(user);
    public void deletesrc(int id) throws Exception {
       Dao dao=new Dao();
        dao.deleteD(id);
    }
    public pageBean getpage(int curPage) throws Exception {
        pageBean pb=new pageBean();
        int per=PerCount.percount;
        pb.setCount(per);
        pb.setCurPage(curPage);
        Dao dao=new Dao();
        int count = dao.getCount();
        pb.setCurSize(count);
        if(count%per==0){
        pb.setSumPage(count/per);
        }else{
            pb.setSumPage(count/per+1);
        }
        List<User> list = dao.limitUser(curPage, per);
        pb.setList(list);
        return pb;
    }
    public int changeupdate(int id,String name,String sex,int age,String address,String
qq, String email) throws Exception {
        Dao dao=new Dao();
        int changeup = dao.changeup(id, name, sex, age, address, qq, email);
        return changeup;
   }
}
```

• Dao层

```
public class Dao {
    public List getUser()throws Exception{
        JdbcTemplate jt=new JdbcTemplate(C3p0Utils.getDs());
        List<User> list = jt.query("select * from user", new BeanPropertyRowMapper<>
(User.class));
        return list;
    }
    public void addUser(User user)throws Exception{
        JdbcTemplate jt=new JdbcTemplate(C3p0Utils.getDs());
    }
}
```

```
Object[]message=
{null,user.getName(),user.getSex(),user.getAge(),user.getAddress(),user.getQq(),
user.getEmail()};
        jt.update("insert into user values (?,?,?,?,?,?)",message);
    public void deleteD (int id)throws Exception{
        JdbcTemplate jt=new JdbcTemplate(C3p0Utils.getDs());
        jt.update("delete from user where id=?",id);
    public List<User> limitUser(int curPage,int percount)throws Exception{
        JdbcTemplate jt=new JdbcTemplate(C3p0Utils.getDs());
        List<User> list = jt.query("select * from user limit ?,?", new BeanPropertyRowMapper<>
(User.class), (curPage - 1) * percount, percount);
        return list;
    public int getCount()throws Exception{
        JdbcTemplate jt=new JdbcTemplate(C3p0Utils.getDs());
        Long aLong = jt.queryForObject("select count(*) from user", Long.class);
        return (int) aLong.longValue();
    public int changeup(int id, String name, String sex, int age, String address, String qq, String
email)throws Exception{
        JdbcTemplate jt=new JdbcTemplate(C3p0Utils.getDs());
        int update = jt.update("update user set name=?,sex=?,age=?,address=?,qq=?,email=? where
id=?", name, sex, age, address, qq, email, id);
        return update;
   }
}
```

扩展

一, PageBean优化

```
* 分页的数据的封装类
public class PageBean<T> {
   //一页显示的用户的集合 List<User> list
   //当前页码
                    int curPage;
   //总页数
                     int sumPage;
   //用户的总数
                    int count;
   //一页显示的数量
                    int curSize;
   private List<T> list;
   private int curPage;
   private int sumPage;
   private int count;
   private int curSize;
```

```
public void setList(List<T> list) {
       this.list = list;
    public List<T> getList() {
        return list;
    public int getCurPage() {
        return curPage;
   public void setCurPage(int curPage) {
       this.curPage = curPage;
    public int getSumPage() {
       return sumPage;
   }
    public void setSumPage(int sumPage) {
       this.sumPage = sumPage;
    public int getCount() {
        return count;
    public void setCount(int count) {
       this.count = count;
   public int getCurSize() {
       return curSize;
    public void setCurSize(int curSize) {
       this.curSize = curSize;
   }
}
```

二, doGet()方法里面的优化

```
@WebServlet("/userServlet")
public class UserServlet extends javax.servlet.http.HttpServlet {
    //1. 判断是哪一个方法 2.让这个方法执行
```

```
protected void doGet(javax.servlet.http.HttpServletRequest request,
javax.servlet.http.HttpServletResponse response) throws javax.servlet.ServletException,
IOException {
       try {
           //0.处理post请求的乱码
           request.setCharacterEncoding("utf-8");
           //1. 获得method请求参数(说白了就是方法名)
           String methodStr = request.getParameter("method");
           //2. 获得字节码对象
           Class clazz = this.getClass();
           //3. 反射获得methodStr(方法名)对应的Method对象
           Method method = clazz.getMethod(methodStr, HttpServletRequest.class,
HttpServletResponse.class);
           //4. 让这个方法执行
           method.invoke(this,request,response);
       } catch (Exception e) {
           e.printStackTrace();
       }
   }
 }
```