# 自主投票系统

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| 项目计划 在当今社会中，大多数人也包括我在面临选择时难以抉择，而这也就是典型的选择困难症，由此结合在本学期学习的知识做了一个自助投票系统，可以通过管理员添加投票项目，用户进行登录，进入投票页面进行投票的机制，来帮助大家以及我自己解决这一问题。 |
| 1. 系统需求分析与功能设计 2. 用例图：     用户用例图    管理员用例图   1. 系统流程图 |
| 总体设计  1. 系统构架图：      1. 类图   com.entity:    com.oper:    com.dao:    com.dao.impl:    com.servlet:    机器上的实现：   1. 界面设计：   登录界面3.1  用户投票主页3.2  管理员投票管理3.3  管理员查看投票记录3.4  管理员类别管理3.5 |
| 4.数据库设计   1. E-R图     管理员表1.1    用户表1.2    类别表1.3    Ip表1.4    投票信息表1.5    投票日志信息表1.6    投票数表1.7    投票信息模块关系模式1.8    投票日志模块关系模式1.9   1. 数据库物理结构设计   根据以上概念结构设计的结果，下面将进行数据库物理结构的设计，主要介绍关键数据表的设计详细，字段说明以及各表索引、触发器的设计说明和视图设计说明   1. 用户表：用于存放用户信息：  |  |  |  |  | | --- | --- | --- | --- | | 用户信息(User) | | | | | 字段名 | 类型 | 不为空 | 说明 | | uesr\_id | int | 是 | 用户id，主键 | | user\_name | char(45) | 是 | 用户名 | | user\_password | char(45) | 是 | 用户密码 | | user\_gender | int | 是 | 用户性别 |  1. 管理员表：用于存放管理员信息  |  |  |  |  | | --- | --- | --- | --- | | 管理员信息(Admin) | | | | | 字段名 | 类型 | 不为空 | 说明 | | admin\_id | int | 是 | 管理员id，主键 | | admin\_name | char(45) | 是 | 管理员名 | | admin\_password | char(45) | 是 | 管理员密码 | | admin\_gender | int | 是 | 管理员性别 |  1. 投票类别表：同于存放投票类别信息：  |  |  |  |  | | --- | --- | --- | --- | | 投票类别(Category) | | | | | 字段名 | 类型 | 不为空 | 说明 | | category\_id | int | 是 | 类别id，主键 | | category\_name | char(45) | 是 | 类别名称 |  1. Ip信息表：用于存放Ip信息：  |  |  |  |  | | --- | --- | --- | --- | | Ip信息(Ip) | | | | | 字段名 | 类型 | 不为空 | 说明 | | ip\_id | int | 是 | Ipid，主键 | | ip | char(45) | 是 | Ip | | ip\_location | char(45) | 是 | Ip位置信息 |  1. 投票信息表：用于存放投票信息表：  |  |  |  |  | | --- | --- | --- | --- | | 投票信息(Vote) | | | | | 字段名 | 类型 | 不为空 | 说明 | | vote\_id | int | 是 | 投票信息id，主键 | | category\_id | int | 是 | 类别id | | admin\_id | int | 是 | 管理员id | | vote\_title | char(45) | 是 | 投票标题 | | vote\_a | char(45) | 是 | 投票选项a内容 | | vote\_b | char(45) | 是 | 投票选项b内容 | | vote\_c | char(45) | 是 | 投票选项c内容 | | vote\_d | char(45) | 是 | 投票选项d内容 | | vote\_createtime | timestamp | 是 | 创建投票时间 |  1. 投票日志表：用于存放投票日志信息：  |  |  |  |  | | --- | --- | --- | --- | | 投票日志信息(VoteInfo) | | | | | 字段名 | 类型 | 不为空 | 说明 | | voteinfo\_id | int | 是 | 投票日志id，主键 | | vote\_id | int | 是 | 投票信息id | | user\_id | int | 是 | 用户id | | voteinfo\_option | char(45) | 是 | 投票选项 | | voteinfo\_ip | char(45) | 是 | 投票时ip | | voteinfo\_time | timestamp | 是 | 投票时间 |  1. 投票数表：用于存放投票数量信息：  |  |  |  |  | | --- | --- | --- | --- | | 投票数信息(VoteNumber) | | | | | 字段名 | 类型 | 不为空 | 说明 | | votenumber\_id | int | 是 | 投票数id，主键 | | vote\_id | int | 是 | 投票信息id | | votenumber\_a | int | 是 | a选项投票数 | | votenumber\_b | int | 是 | b选项投票数 | | votenumber\_c | int | 是 | c选项投票数 | | votenumber\_d | int | 是 | d选项投票数 |  1. 机器上的物理设计：   根据以上列出的数据逻辑模型，添加到机器中，设计图如下： |
| 5.程序模块设计  1. 用户投票后同步显示投票结果的实现   此功能的实现主要是通过点击调用getValue函数，通过ajax引擎发送投票的id和选项给服务器的Servlet，服务器中再将对应的投票数封装成Json数据发送给客户端，客户端再将数据实现在页面。实现代码如下：  Index.jsp：  <%@page import=*"java.text.DecimalFormat"*%>  <%@page import=*"com.entity.VoteNumber"*%>  <%@page import=*"com.entity.V\_Vote"*%>  <%@page import=*"java.util.List"*%>  <%@page import=*"com.dao.impl.VoteDaoImpl"*%>  <%@page import=*"com.dao.VoteDao"*%>  <%@page import=*"com.dao.impl.VoteInfoDaoImpl"*%>  <%@page import=*"com.dao.VoteInfoDao"*%>  <%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*  pageEncoding=*"UTF-8"*%>  <%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>  <html>  <head>  <meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>  <title>Insert title here</title>  <link rel=*"stylesheet"* href=*"css/style.css"* />  <link rel=*"stylesheet"* href=*"css/bootstrap.css"* />  <script type=*"text/javascript"* src=*"js/jquery-3.1.1.min.js"*></script>  <script type=*"text/javascript"* src=*"js/bootstrap.min.js"*></script>  <jsp:useBean id=*"voteInfoDao"* class=*"com.dao.impl.VoteInfoDaoImpl"*/>  <jsp:useBean id=*"voteDao"* class=*"com.dao.impl.VoteDaoImpl"*></jsp:useBean>  </head>  <script type=*"text/javascript"*>  **function** getValue(val,vote\_Id) {  $.ajax({  type : "GET",  url : "VoteInfo?method=vote",  data : {"vote\_Id": vote\_Id,"voteInfo\_Option":val},  dataType: "json",  success : **function**(data) {  **var** voteNumber\_A=data["voteNumber\_A"];  **var** voteNumber\_B=data["voteNumber\_B"];  **var** voteNumber\_C=data["voteNumber\_C"];  **var** voteNumber\_D=data["voteNumber\_D"];  **var** total = voteNumber\_A+voteNumber\_B+voteNumber\_C+voteNumber\_D;  **if**(total!=0){  voteNumber\_A1 = (voteNumber\_A/total\*100).toFixed(2);  voteNumber\_B1 = (voteNumber\_B/total\*100).toFixed(2);  voteNumber\_C1 = (voteNumber\_C/total\*100).toFixed(2);  voteNumber\_D1 = (voteNumber\_D/total\*100).toFixed(2);  }**else**{  voteNumber\_A1 = 0;  voteNumber\_B1 = 0;  voteNumber\_C1 = 0;  voteNumber\_D1 = 0;  }    **var** div = "<div class='progress' style='width:45%;float:left;margin-left:3.5%;margin-top:1%;margin-bottom:1%;' >"+  "<div class='progress-bar progress-bar-success' role='progressbar' aria-valuenow='60' aria-valuemin='0' aria-valuemax='0' style='width: "+voteNumber\_A1+"%;'>"+voteNumber\_A1+"%("+voteNumber\_A+")票"+  "</div>"+  "</div>"+  "<div class='progress' style='width:45%;float:left;margin-left:3.5%;margin-top:1%;margin-bottom:1%;' >"+  "<div class='progress-bar progress-bar-info' role='progressbar' aria-valuenow='60' aria-valuemin='0' aria-valuemax='0' style='width: "+voteNumber\_B1+"%;'>"+voteNumber\_B1+"%("+voteNumber\_B+")票"+  "</div>"+  "</div>"+  "<div class='progress' style='width:45%;float:left;margin-left:3.5%;margin-top:1%;margin-bottom:1%;'>"+  "<div class='progress-bar progress-bar-warning' role='progressbar' aria-valuenow='60' aria-valuemin='0' aria-valuemax='0' style='width: "+voteNumber\_C1+"%;'>"+voteNumber\_C1+"%("+voteNumber\_C+")票"+  "</div>"+  "</div>"+  "<div class='progress' style='width:45%;float:left;margin-left:3.5%;margin-top:1%;margin-bottom:1%;'>"+  "<div class='progress-bar progress-bar-danger' role='progressbar' aria-valuenow='60' aria-valuemin='0' aria-valuemax='0' style='width: "+voteNumber\_D1+"%;'>"+voteNumber\_D1+"%("+voteNumber\_D+")票"+  "</div>"+  "</div>"  $("#"+vote\_Id).html(div);  },  error: **function**(){  alert(val+''+vote\_Id);  }  });  }  </script>  <body style="background-color: *#CCFFCC*;">  <div id=*"index\_top"* >  <nav class=*"navbar navbar-inverse"*>  <div class=*"container-fluid"* >  <!-- Brand and toggle get grouped for better mobile display -->  <div class=*"navbar-header"*>  <a class=*"navbar-brand"* href=*"index.php"*>  Vote  </a>  </div>  <ul class=*"nav nav-tabs navbar-nav navbar-right"*>  <li>  <a href=*"User?method=cancel"*>  注销  </a>  </li>  </ul>  </div>  </nav>  </div>  <c:forEach items=*"*${vote\_List }*"* var=*"list"*>  <div class=*"vote"* style="background-color: *rgb( 255,250,250)*;">  <div class=*"vote\_title"*>  <h2>${list.vote.vote\_Title } <small>${list.admin.admin\_Name }</small></h2>  <h4>${list.category.category\_Name } <small>${list.vote.vote\_CreateTime }</small></h4>  </div>  <c:set value=*"*${list.vote.vote\_Id }*"* var=*"vote"* scope=*"request"*/>  <% List<V\_Vote> list = voteDao.getByVoteId((**int**)request.getAttribute("vote"));  VoteNumber voteNumber = list.get(0).getVoteNumber();  DecimalFormat df = **new** DecimalFormat(".00");  **double** total = voteNumber.getVoteNumber\_A()+voteNumber.getVoteNumber\_B()+voteNumber.getVoteNumber\_C()+voteNumber.getVoteNumber\_D();  **if**(total!=0){  request.setAttribute("a", df.format(voteNumber.getVoteNumber\_A()/total\*100));  request.setAttribute("b", df.format(voteNumber.getVoteNumber\_B()/total\*100));  request.setAttribute("c", df.format(voteNumber.getVoteNumber\_C()/total\*100));  request.setAttribute("d", df.format(voteNumber.getVoteNumber\_D()/total\*100));  }**else**{  request.setAttribute("a", 0);  request.setAttribute("b", 0);  request.setAttribute("c", 0);  request.setAttribute("d", 0);  }  **int** result = voteInfoDao.check((**int**)request.getAttribute("vote"), (**int**)session.getAttribute("user\_Id"));  **if**(result==1){  %>  <div style="display: *inline-block*; width: *100%*;padding: *2%*; ">  <div class=*'progress'* style='width:*45%*;float:*left*;margin-left:*3.5%*;margin-top:*1%*;margin-bottom:*1%*;' >  <div class=*'progress-bar progress-bar-success'* role=*'progressbar'* aria-valuenow=*'60'* aria-valuemin=*'0'* aria-valuemax=*'0'* style=*"width:* ${a }*%"*><%=voteNumber.getVoteNumber\_A() %>票  </div>  </div>  <div class=*'progress'* style='width:*45%*;float:*left*;margin-left:*3.5%*;margin-top:*1%*;margin-bottom:*1%*;' >  <div class=*'progress-bar progress-bar-info'* role=*'progressbar'* aria-valuenow=*'60'* aria-valuemin=*'0'* aria-valuemax=*'0'* style=*"width:* ${b }*%;"*><%=voteNumber.getVoteNumber\_B() %>票  </div>  </div>  <div class=*'progress'* style='width:*45%*;float:*left*;margin-left:*3.5%*;margin-top:*1%*;margin-bottom:*1%*;'>  <div class=*'progress-bar progress-bar-warning'* role=*'progressbar'* aria-valuenow=*'60'* aria-valuemin=*'0'* aria-valuemax=*'0'* style=*"width:* ${c }*%;"*><%=voteNumber.getVoteNumber\_C() %>票  </div>  </div>  <div class=*'progress'* style='width:*45%*;float:*left*;margin-left:*3.5%*;margin-top:*1%*;margin-bottom:*1%*;'>  <div class=*'progress-bar progress-bar-danger'* role=*'progressbar'* aria-valuenow=*'60'* aria-valuemin=*'0'* aria-valuemax=*'0'* style=*"width:* ${d }*%;"*><%=voteNumber.getVoteNumber\_D() %>票  </div>  </div>  </div>  <% }**else**{ %>  <div id=*"*${list.vote.vote\_Id }*"* style="display: *inline-block*; width: *100%*;padding: *2%*; ">  <button class=*"btn btn-default"* onclick=*"getValue(this.value,'*${list.vote.vote\_Id }*')"* value=*"a"*>${list.vote.vote\_A }</button>  <button class=*"btn btn-default"* onclick=*"getValue(this.value,'*${list.vote.vote\_Id }*')"* value=*"b"*>${list.vote.vote\_B }</button>  <button class=*"btn btn-default"* onclick=*"getValue(this.value,'*${list.vote.vote\_Id }*')"* value=*"c"*>${list.vote.vote\_C }</button>  <button class=*"btn btn-default"* onclick=*"getValue(this.value,'*${list.vote.vote\_Id }*')"* value=*"d"*>${list.vote.vote\_D }</button>  </div>  <% } %>  </div>  </c:forEach>  </body>  </html>  VoteInfoServlet.java：  **package** com.servlet;  **import** java.io.IOException;  **import** java.io.PrintWriter;  **import** java.util.List;  **import** javax.servlet.ServletException;  **import** javax.servlet.annotation.WebServlet;  **import** javax.servlet.http.HttpServlet;  **import** javax.servlet.http.HttpServletRequest;  **import** javax.servlet.http.HttpServletResponse;  **import** com.dao.UserDao;  **import** com.dao.VoteDao;  **import** com.dao.VoteInfoDao;  **import** com.dao.impl.UserDaoImpl;  **import** com.dao.impl.VoteDaoImpl;  **import** com.dao.impl.VoteInfoDaoImpl;  **import** com.entity.User;  **import** com.entity.V\_Vote;  **import** com.entity.V\_VoteInfo;  **import** com.entity.VoteInfo;  **import** com.entity.VoteNumber;  **import** com.oper.GsonOper;  @WebServlet("/VoteInfo")  **public** **class** VoteInfoServlet **extends** HttpServlet {  **private** **static** **final** **long** ***serialVersionUID*** = 1L;  **public** String method = **null**;  **public** VoteInfoDao voteInfoDao;  **private** VoteDao voteDao;  **private** UserDao userDao;  **private** GsonOper gsonOper;    **public** VoteInfoServlet() {  **super**();  voteInfoDao = **new** VoteInfoDaoImpl();  voteDao = **new** VoteDaoImpl();  gsonOper = **new** GsonOper();  userDao = **new** UserDaoImpl();    }  **protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  doPost(request, response);  }  **protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  request.setCharacterEncoding("utf-8");  response.setCharacterEncoding("utf-8");  response.setContentType("text/html; charset=UTF-8");      method = request.getParameter("method");    **if**(method.equals("vote")){  vote(request, response);  }**else** **if** (method.equals("getAll")) {  getAll(request, response);  }**else** **if** (method.equals("getById")) {  getById(request, response);  }  }  **public** **void** vote(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException{  **int** vote\_Id = Integer.*parseInt*(request.getParameter("vote\_Id")) ;  **int** user\_Id = (**int**)request.getSession().getAttribute("user\_Id");  String voteInfo\_Option = request.getParameter("voteInfo\_Option");  PrintWriter out = response.getWriter();  String voteInfo\_Ip = getIpAddr(request);  VoteInfo voteInfo = **new** VoteInfo();  voteInfo.setVote\_Id(vote\_Id);  voteInfo.setUser\_Id(user\_Id);  voteInfo.setVoteInfo\_Option(voteInfo\_Option);  voteInfo.setVoteInfo\_Ip(voteInfo\_Ip);  **int** result = voteInfoDao.add(voteInfo);      **if**(result==1){  System.***out***.println("成功");  List<V\_Vote> list = voteDao.getByVoteId(vote\_Id);  VoteNumber voteNumber = list.get(0).getVoteNumber();  **switch** (voteInfo\_Option) {  **case** "a":  voteNumber.setVoteNumber\_A(voteNumber.getVoteNumber\_A()+1);  **break**;  **case** "b":  voteNumber.setVoteNumber\_B(voteNumber.getVoteNumber\_B()+1);  **break**;  **case** "c":  voteNumber.setVoteNumber\_C(voteNumber.getVoteNumber\_C()+1);  **break**;  **case** "d":  voteNumber.setVoteNumber\_D(voteNumber.getVoteNumber\_D()+1);  **break**;  }  voteNumber.setVote\_Id(vote\_Id);  **int** result1 = voteDao.vote(voteNumber);  **if**(result1==1){  System.***out***.println("投票成功");  String jsonStr = gsonOper.toJson(voteNumber);  out.print(jsonStr);  }**else**{  System.***out***.println("投票失败");  }    }**else**{  System.***out***.println("失败");  }  }  **public** **void** getAll(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException{  List<V\_VoteInfo> list = voteInfoDao.getAll();  **for** (V\_VoteInfo v\_VoteInfo : list) {  List<V\_Vote> list2 =voteDao.getByVoteId(v\_VoteInfo.getVote().getVote\_Id());  **switch** (v\_VoteInfo.getVoteInfo().getVoteInfo\_Option()) {  **case** "a":  v\_VoteInfo.getVoteInfo().setVoteInfo\_Option(list2.get(0).getVote().getVote\_A());  **break**;  **case** "b":  v\_VoteInfo.getVoteInfo().setVoteInfo\_Option(list2.get(0).getVote().getVote\_B());  **break**;  **case** "c":  v\_VoteInfo.getVoteInfo().setVoteInfo\_Option(list2.get(0).getVote().getVote\_C());  **break**;  **case** "d":  v\_VoteInfo.getVoteInfo().setVoteInfo\_Option(list2.get(0).getVote().getVote\_D());  **break**;    }  }  List<User> list2 = userDao.getAll();  request.setAttribute("voteInfo\_List", list);  request.setAttribute("user\_List", list2);  request.getRequestDispatcher("VoteInfo\_List.jsp").forward(request, response);  }  **public** **void** getById(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException{  **int** user\_Id = Integer.*parseInt*(request.getParameter("user\_Id"));  List<V\_VoteInfo> list = voteInfoDao.getById(user\_Id);  **for** (V\_VoteInfo v\_VoteInfo : list) {  List<V\_Vote> list2 =voteDao.getByVoteId(v\_VoteInfo.getVote().getVote\_Id());  **switch** (v\_VoteInfo.getVoteInfo().getVoteInfo\_Option()) {  **case** "a":  v\_VoteInfo.getVoteInfo().setVoteInfo\_Option(list2.get(0).getVote().getVote\_A());  **break**;  **case** "b":  v\_VoteInfo.getVoteInfo().setVoteInfo\_Option(list2.get(0).getVote().getVote\_B());  **break**;  **case** "c":  v\_VoteInfo.getVoteInfo().setVoteInfo\_Option(list2.get(0).getVote().getVote\_C());  **break**;  **case** "d":  v\_VoteInfo.getVoteInfo().setVoteInfo\_Option(list2.get(0).getVote().getVote\_D());  **break**;  }  }  PrintWriter out = response.getWriter();  String jsonStr = gsonOper.toJson(list);  out.print(jsonStr);  }  **public** String getIpAddr(HttpServletRequest request) {  String ip = request.getHeader("x-forwarded-for");  **if**(ip == **null** || ip.length() == 0 || "unknown".equalsIgnoreCase(ip)) {  ip = request.getHeader("Proxy-Client-IP");  }  **if**(ip == **null** || ip.length() == 0 || "unknown".equalsIgnoreCase(ip)) {  ip = request.getHeader("WL-Proxy-Client-IP");  }  **if**(ip == **null** || ip.length() == 0 || "unknown".equalsIgnoreCase(ip)) {  ip = request.getRemoteAddr();  }  **return** ip;  }  }   1. 管理员通过选择用户下拉选项查看用户投票日志的实现。   此功能的实现主要通过select标签中的onchange()方法调用ajax引擎将用户id传给VoteInfoServlet，并将投票日志中的选项改为相应的选项内容再转换为json数据传给客户端。代码如下：  VoteInfo\_List.jsp:  <%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*  pageEncoding=*"UTF-8"*%>  <%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>  <html>  <head>  <meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>  <title>Insert title here</title>  <link rel=*"stylesheet"* href=*"css/style.css"* />  <link rel=*"stylesheet"* href=*"css/bootstrap.css"* />  <script type=*"text/javascript"* src=*"js/jquery-3.1.1.min.js"*></script>  <script type=*"text/javascript"* src=*"js/bootstrap.min.js"*></script>  </head>  <script>  **function** getValue(val) {  $.ajax({  type : "GET",  url : "VoteInfo?method=getById",  data : {"user\_Id": val},  dataType: "json",  success : **function**(data) {  **var** div ="<table class='table table-striped'>"+  " <tr>"+  "<th style='width: 15%'>VoteInfo编号</th>"+  "<th >标题</th>"+  "<th>投票者</th>"+  "<th>选项</th>"+  "<th>IP</th>"+  "<th>投票时间</th>"+  "<tr>";  **for**(**var** v\_VoteInfo **in** data){  **if**(data[v\_VoteInfo]["user"]["user\_Gender"]==1){  **var** gender = "#0066CC";  }**else**{  **var** gender = "#FF6666"  }  div = div + "<tr>"+  "<td>"+data[v\_VoteInfo]["voteInfo"]["voteInfo\_Id"]+"</td>"+  "<td>"+data[v\_VoteInfo]["vote"]["vote\_Title"]+"</td>"+  "<td><font color="+gender+">"+data[v\_VoteInfo]["user"]["user\_Name"]+"</font></td>"+  "<td>"+data[v\_VoteInfo]["voteInfo"]["voteInfo\_Option"]+"</td>"+  "<td>"+data[v\_VoteInfo]["voteInfo"]["voteInfo\_Ip"]+"</td>"+  "<td>"+data[v\_VoteInfo]["voteInfo"]["voteInfo\_Time"]+"</td>"+  "</tr>";  }  $(".list").html("");  $("#list").html(div);  },  error: **function**(){    }  });  }  </script>  <body>  <div id=*"voteInfo\_list\_title"*>  <h2><span class=*"glyphicon glyphicon-list"* aria-hidden=*"true"*></span>投票信息列表</h2>  </div>  <div id=*"vote\_select"*>  <select class=*"form-control"* onchange=*"getValue(this.value)"*>  <c:forEach items=*"*${user\_List }*"* var=*"list"*>  <option value=*"*${list.user\_Id }*"*>${list.user\_Name }</option>  </c:forEach>  </select>  </div>  <form action=*''* method=*'post'* id=*"list"*>  <table class=*"table table-striped"*>  <tr>  <th style="width: *15%*">VoteInfo编号</th>  <th >标题</th>  <th>投票者</th>  <th>选项</th>  <th>IP</th>  <th>投票时间</th>  <tr>  <c:forEach items=*"*${voteInfo\_List }*"* var=*"list"*>  <tr class=*"list"*>  <td>${list.voteInfo.voteInfo\_Id }</td>  <td>${list.vote.vote\_Title }</td>  <td><font color=*"*${list.user.user\_Gender==1 ? '#0066CC':'#FF6666' }*"*>${list.user.user\_Name }</font></td>  <td>${list.voteInfo.voteInfo\_Option }</td>  <td>${list.voteInfo.voteInfo\_Ip }</td>  <td>${list.voteInfo.voteInfo\_Time }</td>  </tr>  </c:forEach>  </table>  </form>  </body>  </html>   1. 其他代码：   AdminServlet.java:  **package** com.servlet;  **import** java.io.IOException;  **import** java.util.List;  **import** javax.servlet.ServletException;  **import** javax.servlet.annotation.WebServlet;  **import** javax.servlet.http.HttpServlet;  **import** javax.servlet.http.HttpServletRequest;  **import** javax.servlet.http.HttpServletResponse;  **import** com.dao.AdminDao;  **import** com.dao.VoteDao;  **import** com.dao.impl.VoteDaoImpl;  **import** com.entity.Category;  **import** com.entity.V\_Vote;  @WebServlet("/Admin")  **public** **class** AdminServlet **extends** HttpServlet {  **private** **static** **final** **long** ***serialVersionUID*** = 1L;  **private** String method = **null**;  **private** VoteDao voteDao;  **public** AdminServlet() {  **super**();  voteDao = **new** VoteDaoImpl();  }  **protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  doPost(request, response);  }  **protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  request.setCharacterEncoding("utf-8");  response.setCharacterEncoding("utf-8");  response.setContentType("text/html; charset=UTF-8");    method = request.getParameter("method");    **if**(method.equals("cancel")){  cancel(request, response);  }**else** **if**(method.equals("getAll")){  getAll(request, response);  }**else** **if** (method.equals("getCategoty")) {  getCotegory(request, response);  }**else** **if**(method.equals("updateCategory")){  updateCategory(request, response);  }**else** **if**(method.equals("addCategory")) {  addCategory(request, response);  }**else** **if** (method.equals("delCategory")) {  delCategory(request, response);  }  }  **public** **void** cancel(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  request.getSession().removeAttribute("admin\_Id");  request.getRequestDispatcher("/Login.jsp").forward(request, response);  }  **public** **void** getAll(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  List<V\_Vote> list = voteDao.getAll();  List<Category> list2 = voteDao.getCategory();  request.setAttribute("vote\_List",list);  request.setAttribute("category\_List",list2);  request.getRequestDispatcher("/Vote\_List.jsp").forward(request, response);  }  **public** **void** getCotegory(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  List<Category> list = voteDao.getCategory();  request.setAttribute("category\_List",list);  request.getRequestDispatcher("/Category\_List.jsp").forward(request, response);  }  **public** **void** updateCategory(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  **int** category\_Id = Integer.*parseInt*(request.getParameter("category\_Id"));  String category\_Name = request.getParameter("category\_Name");  Category category = **new** Category();  category.setCategory\_Id(category\_Id);  category.setCategory\_Name(category\_Name);  **int** result = 0;  **try**{  result = voteDao.updateCategory(category);  **if**(result==1){  request.getRequestDispatcher("Admin?method=getCategoty").forward(request, response);  }  }**catch** (Exception e) {  e.printStackTrace();  }  }  **public** **void** addCategory(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  String category\_Name = request.getParameter("category\_Name");  Category category = **new** Category();  category.setCategory\_Name(category\_Name);  **int** result = 0;  **try**{  result = voteDao.addCategory(category);  **if**(result==1){  request.getRequestDispatcher("Admin?method=getCategoty").forward(request, response);  }  }**catch** (Exception e) {  e.printStackTrace();  }  }  **public** **void** delCategory(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  **int** category\_Id = Integer.*parseInt*(request.getParameter("category\_Id"));  **int** result = 0;  **try**{  result = voteDao.deleteCategory(category\_Id);  **if**(result==1){  request.getRequestDispatcher("Admin?method=getCategoty").forward(request, response);  }  }**catch** (Exception e) {  e.printStackTrace();  }  }  }  CommonServlet.java:  **package** com.servlet;  **import** java.io.IOException;  **import** java.io.PrintWriter;  **import** javax.servlet.ServletException;  **import** javax.servlet.annotation.WebServlet;  **import** javax.servlet.http.HttpServlet;  **import** javax.servlet.http.HttpServletRequest;  **import** javax.servlet.http.HttpServletResponse;  **import** com.dao.AdminDao;  **import** com.dao.UserDao;  **import** com.dao.impl.AdminDaoImpl;  **import** com.dao.impl.UserDaoImpl;  **import** com.entity.Admin;  **import** com.entity.User;  **import** com.mysql.cj.api.Session;  @WebServlet("/Common")  **public** **class** CommonServlet **extends** HttpServlet {  **private** **static** **final** **long** ***serialVersionUID*** = 1L;  **public** String method = **null**;  **private** UserDao userDao;  **private** AdminDao adminDao;    **public** CommonServlet() {  **super**();  userDao = **new** UserDaoImpl();  adminDao = **new** AdminDaoImpl();  }    **protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  doPost(request, response);  }    **protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  request.setCharacterEncoding("utf-8");  response.setCharacterEncoding("utf-8");  response.setContentType("text/html; charset=UTF-8");    method = request.getParameter("method");  **if**(method.equals("login")){  login(request, response);  }    }  **public** **void** login(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  String name = request.getParameter("name");  String password = request.getParameter("password");  String loginType = request.getParameter("loginType");  PrintWriter out = response.getWriter();  **if**(loginType.equals("admin")){  Admin admin = adminDao.adminLogin(name, password);  **if**(admin==**null**){  out.print("<script type='text/javascript'>alert('登录信息有误');window.location.href = 'Login.jsp';</script>");  }**else**{  request.getSession().setAttribute("admin", admin);  request.getSession().setMaxInactiveInterval(60\*60\*24);  request.getRequestDispatcher("/Admin\_Index.jsp").forward(request, response);  }  }**else** **if**(loginType.equals("user")){  User user = userDao.userLogin(name, password);  **if**(user==**null**){  out.print("<script type='text/javascript'>alert('登录信息有误');window.location.href = 'Login.jsp';</script>");  }**else**{  request.getSession().setAttribute("user\_Id", user.getUser\_Id());  request.getSession().setMaxInactiveInterval(60\*60\*24);  request.getRequestDispatcher("/Vote?method=getAll").forward(request, response);  }  }    }  }  UserServlet.java:  **package** com.servlet;  **import** java.io.IOException;  **import** java.io.PrintWriter;  **import** javax.servlet.ServletException;  **import** javax.servlet.annotation.WebServlet;  **import** javax.servlet.http.HttpServlet;  **import** javax.servlet.http.HttpServletRequest;  **import** javax.servlet.http.HttpServletResponse;  **import** org.apache.tomcat.util.codec.binary.StringUtils;  **import** com.dao.AdminDao;  **import** com.dao.UserDao;  **import** com.dao.VoteDao;  **import** com.dao.impl.UserDaoImpl;  **import** com.dao.impl.VoteDaoImpl;  **import** com.entity.User;  @WebServlet("/User")  **public** **class** UserServlet **extends** HttpServlet {  **private** **static** **final** **long** ***serialVersionUID*** = 1L;  **private** UserDao userDao;  **private** String method = **null**;  **public** UserServlet() {  **super**();  userDao = **new** UserDaoImpl();  }  **protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  doPost(request, response);  }  **protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  request.setCharacterEncoding("utf-8");  response.setCharacterEncoding("utf-8");  response.setContentType("text/html; charset=UTF-8");      method = request.getParameter("method");    **if**(method.equals("cancel")){  cancel(request, response);  }**else** **if** (method.equals("reg")) {  reg(request, response);  }    }  **public** **void** cancel(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  request.getSession().removeAttribute("user\_Id");  request.getRequestDispatcher("/Login.jsp").forward(request, response);  }  **public** **void** reg(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException{  String name = request.getParameter("name");  String password = request.getParameter("password");  **int** gender = Integer.*parseInt*(request.getParameter("gender"));  User user = **new** User();  user.setUser\_Name(name);  user.setUser\_Password(password);  user.setUser\_Gender(gender);  PrintWriter out = response.getWriter();  User user2 = userDao.getByName(name);  **if**(user2!=**null**){  out.print("<script type='text/javascript'>alert('该账号已注册');window.location.href = 'Register.jsp';</script>");  }**else**{  **if**((String)request.getSession().getAttribute("ip")==**null**){  request.getSession().setAttribute("ip", getIpAddr(request));  request.getSession().setMaxInactiveInterval(60\*60\*24);  userDao.add(user);  request.getRequestDispatcher("Login.jsp").forward(request, response);    }**else**{  **if**(((String)request.getSession().getAttribute("ip"))==getIpAddr(request)){  out.print("<script type='text/javascript'>alert('该Ip以注册，过一天后可注册');window.location.href = 'Login.jsp';</script>");  }**else**{  request.getSession().setAttribute("ip", getIpAddr(request));  request.getSession().setMaxInactiveInterval(60\*60\*24);  userDao.add(user);  request.getRequestDispatcher("Login.jsp").forward(request, response);  }  }  }      }  **public** String getIpAddr(HttpServletRequest request) {  String ip = request.getHeader("x-forwarded-for");  **if**(ip == **null** || ip.length() == 0 || "unknown".equalsIgnoreCase(ip)) {  ip = request.getHeader("Proxy-Client-IP");  }  **if**(ip == **null** || ip.length() == 0 || "unknown".equalsIgnoreCase(ip)) {  ip = request.getHeader("WL-Proxy-Client-IP");  }  **if**(ip == **null** || ip.length() == 0 || "unknown".equalsIgnoreCase(ip)) {  ip = request.getRemoteAddr();  }  **return** ip;  }  }  VoteServlet.java:  **package** com.servlet;  **import** java.io.IOException;  **import** java.util.List;  **import** javax.servlet.ServletException;  **import** javax.servlet.annotation.WebServlet;  **import** javax.servlet.http.HttpServlet;  **import** javax.servlet.http.HttpServletRequest;  **import** javax.servlet.http.HttpServletResponse;  **import** com.dao.VoteDao;  **import** com.dao.impl.VoteDaoImpl;  **import** com.entity.Admin;  **import** com.entity.Category;  **import** com.entity.V\_Vote;  **import** com.entity.Vote;  **import** com.entity.VoteNumber;  @WebServlet("/Vote")  **public** **class** VoteServlet **extends** HttpServlet {  **private** **static** **final** **long** ***serialVersionUID*** = 1L;  **public** String method = **null**;  **private** VoteDao voteDao;    **public** VoteServlet() {  **super**();  voteDao = **new** VoteDaoImpl();    }  **protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  doPost(request, response);  }  **protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  request.setCharacterEncoding("utf-8");  response.setCharacterEncoding("utf-8");  response.setContentType("text/html; charset=UTF-8");    method = request.getParameter("method");  **if**(method.equals("getAll")){  getAll(request, response);  }**else** **if** (method.equals("update")) {  update(request, response);  }**else** **if**(method.equals("add")){  add(request, response);  }**else** **if**(method.equals("delete")){  delete(request, response);  }**else** **if**(method.equals("serch")){  serch(request, response);  }  }  **public** **void** getAll(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  List<V\_Vote> list = voteDao.getAll();    **int** user\_Id = (**int**)request.getSession().getAttribute("user\_Id");    request.setAttribute("vote\_List",list);    request.getRequestDispatcher("/Index.jsp").forward(request, response);  }  **public** **void** update(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  **int** vote\_Id =Integer.*parseInt*(request.getParameter("vote\_Id"));  **int** category= Integer.*parseInt*(request.getParameter("category"));  String title = request.getParameter("title");  String a = request.getParameter("a");  String b = request.getParameter("b");  String c = request.getParameter("c");  String d = request.getParameter("d");  Vote vote = **new** Vote();  vote.setVote\_Id(vote\_Id);  vote.setCategory\_Id(category);  vote.setVote\_Title(title);  vote.setVote\_A(a);  vote.setVote\_B(b);  vote.setVote\_C(c);  vote.setVote\_D(d);  **int** result = 0;  **try**{  result = voteDao.update(vote);  **if**(result==1){  request.getRequestDispatcher("/Admin?method=getAll").forward(request, response);  }  }**catch** (Exception e) {  e.printStackTrace();  }  }  **public** **void** add(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  **int** category= Integer.*parseInt*(request.getParameter("category\_add"));  **int** admin\_Id = Integer.*parseInt*(request.getParameter("admin\_add"));  String title = request.getParameter("title\_add");  String a = request.getParameter("a\_add");  String b = request.getParameter("b\_add");  String c = request.getParameter("c\_add");  String d = request.getParameter("d\_add");  Vote vote = **new** Vote();  vote.setCategory\_Id(category);  vote.setAdmin\_Id(admin\_Id);  vote.setVote\_Title(title);  vote.setVote\_A(a);  vote.setVote\_B(b);  vote.setVote\_C(c);  vote.setVote\_D(d);  **int** result = 0;  **try**{  result = voteDao.add(vote);  **if**(result==1){  voteDao.addNumber();  request.getRequestDispatcher("/Admin?method=getAll").forward(request, response);  }**else** {  System.***out***.println("213");  }  }**catch** (Exception e) {  e.printStackTrace();  }  }  **public** **void** delete(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  **int** vote\_Id =Integer.*parseInt*(request.getParameter("vote\_Id"));  **int** result = 0;  **try**{  result = voteDao.delete(vote\_Id);  **if**(result==1){  voteDao.deleteNumber(vote\_Id);  request.getRequestDispatcher("/Admin?method=getAll").forward(request, response);  }**else** {  System.***out***.println("213");  }  }**catch** (Exception e) {  e.printStackTrace();  }  }  **public** **void** serch(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  String serch = request.getParameter("serch");  List<V\_Vote> list = voteDao.getSerch(serch);    request.setAttribute("vote\_List",list);    request.getRequestDispatcher("Vote\_List.jsp").forward(request, response);  }    }  Admin\_Index.jsp:  <%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*  pageEncoding=*"UTF-8"*%>  <html>  <head>  <meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>  <title>Insert title here</title>  <link rel=*"stylesheet"* href=*"css/style.css"* />  <link rel=*"stylesheet"* href=*"css/bootstrap.css"* />  <script type=*"text/javascript"* src=*"js/jquery-3.1.1.min.js"*></script>  <script type=*"text/javascript"* src=*"js/bootstrap.min.js"*></script>  </head>  <body>  <div id=*"index\_top"*>  <nav class=*"navbar navbar-inverse"*>  <div class=*"container-fluid"*>  <!-- Brand and toggle get grouped for better mobile display -->  <div class=*"navbar-header"*>  <a class=*"navbar-brand"* href=*"index.php"*>  Vote Manager  </a>  </div>  <ul class=*"nav nav-tabs navbar-nav navbar-right"*>  <li>  <a href=*"Admin?method=cancel"*>  注销  </a>  </li>  </ul>  </div>  </nav>  </div>  <div id=*"index\_left"*>  <ul class=*"nav nav-pills nav-stacked"*>  <li><a href=*"Admin?method=getAll"* target=*"right"*>投票列表</a></li>  <li><a href=*"VoteInfo?method=getAll"* target=*"right"*>投票信息列表</a></li>  <li><a href=*"Admin?method=getCategoty"* target=*"right"*>类别列表</a></li>  </ul>  </div>  <script type=*"text/javascript"*>  $("#index\_left ul li a").click(**function**(){  $("#bar\_text").text($(**this**).text());  });  </script>  <div id=*"index\_right\_bar"*>  <ol class=*"breadcrumb"*>  <li><a href=*"Admin?method=getAll"* target=*"right"*>管理</a></li>  <li id=*"bar\_text"* class=*"active"*>投票列表</li>  </ol>  </div>  <div id=*"index\_right"*>  <iframe scrolling=*"auto"* rameborder=*"0"* src=*"Admin?method=getAll"* name=*"right"* width=*"100%"* height=*"100%"* ></iframe>  </div>  </body>  </html>  Vote\_List.jsp:  <%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*  pageEncoding=*"UTF-8"*%>  <%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>  <html>  <head>  <meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>  <title>Insert title here</title>  <link rel=*"stylesheet"* href=*"css/style.css"* />  <link rel=*"stylesheet"* href=*"css/bootstrap.css"* />  <script type=*"text/javascript"* src=*"js/jquery-3.1.1.min.js"*></script>  <script type=*"text/javascript"* src=*"js/bootstrap.min.js"*></script>  </head>  <script type=*"text/javascript"*>  **function** handler(button){  **if** (button.name=="update"){  $("#form").attr("action", "Vote?method=update");  $("#add1").attr("disabled", **true**);  $(".btn-warning").attr("disabled", **true**);  }**else** **if**(button.name=="add"){  $("#form").attr("action", "Vote?method=add");  $("#update").attr("disabled", **true**);  }  }  **function** getValue(vote\_Id,category,admin,title,a,b,c,d,create) {  **var** div = "<td><input type='text' class='form-control' placeholder='"+vote\_Id+"' name='vote\_Id' value='"+vote\_Id+"' disabled/></td>"+  " <input type='hidden' class='form-control' placeholder='"+vote\_Id+"' name='vote\_Id' value='"+vote\_Id+"' />"+  "<td><select class='form-control' name='category'>"+  "<c:forEach items='${category\_List }' var='list'>"+  /\* "<c:if test='${list.category\_Name eq "+category+"}'>"+  "<c:set var='select' value='selected'/>"+  "</c:if>"+ \*/  "<option value='${list.category\_Id }' }>${list.category\_Name }</option>"+  "</c:forEach>"+  "</select></td>"+  "<td><input type='text' class='form-control' placeholder='"+admin+"' name='admin' value='"+admin+"' disabled/></td>"+  "<td><input type='text' class='form-control' placeholder='"+title+"' name='title' value='"+title+"' /></td>"+  "<td><input type='text' class='form-control' placeholder='"+a+"' name='a' value='"+a+"'/></td>"+  "<td><input type='text' class='form-control' placeholder='"+b+"' name='b' value='"+b+"'/></td>"+  "<td><input type='text' class='form-control' placeholder='"+c+"' name='c' value='"+c+"'/></td>"+  "<td><input type='text' class='form-control' placeholder='"+d+"' name='d' value='"+d+"'/></td>"+  "<td><input type='text' class='form-control' name='create' value="+create+" disabled/></td>"+  "<td><input type='submit' class='btn btn-default' value='确认' id='update' name='update' onclick='handler(this)'/></td>";  $("#"+vote\_Id).html(div)  }  **function** add() {  **var** div = "<td><input type='text' class='form-control' placeholder='' name='vote\_Id' disabled /></td>"+  "<td><select class='form-control' name='category\_add'>"+  "<c:forEach items='${category\_List }' var='list'>"+    "<option value='${list.category\_Id }' >${list.category\_Name }</option>"+  "</c:forEach>"+  "</select></td>"+  "<td><input type='text' class='form-control' placeholder='' name='admin\_add' value='${sessionScope.admin.admin\_Name}' disabled/>"+  "<input type='hidden' class='form-control' placeholder='' name='admin\_add' value='${sessionScope.admin.admin\_Id}'/></td>"+  "<td><input type='text' class='form-control' placeholder='' name='title\_add' /></td>"+  "<td><input type='text' class='form-control' placeholder='' name='a\_add' /></td>"+  "<td><input type='text' class='form-control' placeholder='' name='b\_add' /></td>"+  "<td><input type='text' class='form-control' placeholder='' name='c\_add' /></td>"+  "<td><input type='text' class='form-control' placeholder='' name='d\_add' /></td>"+  "<td><input class='form-control' name='create' disabled/></td>"+  "<td><input type='submit' class='btn btn-default' value='确认' id='add1' name='add' onclick='handler(this)' /></td>";  $("#add").html(div)  }  **function** del(vote\_Id) {  **var** Rclose = confirm("是否删除 !")  **if** (Rclose == **true**)  {  $("#form").attr("action", "Vote?method=delete&vote\_Id="+vote\_Id);  $('#form').submit;  }**else**{  }    }  </script>  <body>  <div id=*"vote\_list\_title"*>  <h2><span class=*"glyphicon glyphicon-list"* aria-hidden=*"true"*></span>投票管理</h2>  </div>  <div id=*"serch"*>  <form action=*"Vote?method=serch"* method=*"post"* class=*"form-inline"*>  <input type=*"text"* name=*"serch"* class=*"form-control"* placeholder=*"Serch"* >  <input type=*"submit"* value=*"查询"*>  </form>  </div>  <div id=*"vote\_add"*>  <button name=*"add"* class=*"btn btn-primary"* onclick="add(),handler(this)" >  <span class=*"glyphicon glyphicon-plus"* aria-hidden=*"true"*></span>添加  </button>  </div>  <form id=*"form"* action=*''* method=*'post'*>  <table class=*"table table-striped"*>  <tr>  <th style="width: *5%*">Vote编号</th>  <th style="width: *6%*">类别</th>  <th>创建人</th>  <th>标题</th>  <th>选项A</th>  <th>选项B</th>  <th>选项C</th>  <th>选项D</th>  <th>创建时间</th>  <th>操作</th>  <tr>  <tr id=*"add"*>  </tr>  <c:forEach items=*"*${vote\_List }*"* var=*"list"*>  <tr id=*"*${list.vote.vote\_Id }*"*>  <td>${list.vote.vote\_Id }</td>  <td>${list.category.category\_Name }</td>  <td>${list.admin.admin\_Name }</td>  <td>${list.vote.vote\_Title }</td>  <td>${list.vote.vote\_A }</td>  <td>${list.vote.vote\_B }</td>  <td>${list.vote.vote\_C }</td>  <td>${list.vote.vote\_D }</td>  <td>${list.vote.vote\_CreateTime }</td>  <td ><button name=*"update"* class=*"btn btn-warning"* onclick=*"getValue('*${list.vote.vote\_Id }*','*${list.category.category\_Name }*','*${list.admin.admin\_Name }*','*${list.vote.vote\_Title }*','*${list.vote.vote\_A }*','*${list.vote.vote\_B }*','*${list.vote.vote\_C }*','*${list.vote.vote\_D }*','*${list.vote.vote\_CreateTime }*'),handler(this)"* ><span class=*"glyphicon glyphicon-cog"* aria-hidden=*"true"*></span> 修改</button>  <button class=*"btn btn-danger"* onclick=*"del('*${list.vote.vote\_Id }*')"* > <span class=*"glyphicon glyphicon-trash"* aria-hidden=*"true"*></span>删除</button></td>  </tr>  </c:forEach>  </table>  </form>  </body>  </html>  Category\_List.jsp:  <%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*  pageEncoding=*"UTF-8"*%>  <%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>  <html>  <head>  <meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>  <title>Insert title here</title>  <link rel=*"stylesheet"* href=*"css/style.css"* />  <link rel=*"stylesheet"* href=*"css/bootstrap.css"* />  <script type=*"text/javascript"* src=*"js/jquery-3.1.1.min.js"*></script>  <script type=*"text/javascript"* src=*"js/bootstrap.min.js"*></script>  </head>  <script>  **function** handler(button){  **if** (button.name=="update"){  $("#form").attr("action","Admin?method=updateCategory");  }**if** (button.name=="add"){  $("#form").attr("action","Admin?method=addCategory");  }  }  **function** getValue(id,name) {  **var** div = "<td><input type='text' class='form-control' placeholder='"+id+"' name='category\_Id' value='"+id+"' disabled/></td>"+  " <input type='hidden' class='form-control' placeholder='"+id+"' name='category\_Id' value='"+id+"' />"+  "<td><input type='text' class='form-control' placeholder='"+name+"' name='category\_Name' value='"+name+"' /></td>"+  "<td><input type='submit' class='btn btn-default' value='确认' id='update' name='add' onclick='handler(this)'/></td>";  $("#"+id).html(div);  }  **function** add() {  **var** div = "<td><input type='text' class='form-control' name='category\_Id' disabled/></td>"+  "<td><input type='text' class='form-control' placeholder='Category\_Name' name='category\_Name' /></td>"+  "<td><input type='submit' class='btn btn-default' value='确认' id='update' name='add' onclick='handler(this)'/></td>";  $("#add").html(div);  }  **function** del(id) {  **var** Rclose = confirm("是否删除 !")  **if** (Rclose == **true**)  {  $("#form").attr("action", "Admin?method=delCategory&category\_Id="+id);  $('#form').submit;  }**else**{  }    }  </script>  <body>  <div id=*"vote\_list\_title"*>  <h2><span class=*"glyphicon glyphicon-list"* aria-hidden=*"true"*></span>类别管理</h2>  </div>  <div id=*"vote\_categoty"*>  <button name=*"category"* name=*"add"* class=*"btn btn-primary"* onclick="add(),handler(this)" >  <span class=*"glyphicon glyphicon-plus"* aria-hidden=*"true"*></span>添加  </button>  </div>  <form action=*''* method=*'post'* id=*"form"*>  <table class=*"table table-striped"*>  <tr>  <th style="width: *15%*">Catrgory编号</th>  <th style="width: *50%*">Category名称</th>  <th>操作</th>  <tr>  <tr id=*"add"*></tr>  <c:forEach items=*"*${category\_List }*"* var=*"list"*>  <tr id=*"*${list.category\_Id }*"*>  <td>${list.category\_Id }</td>  <td>${list.category\_Name }</td>  <td ><button name=*"update"* class=*"btn btn-warning"* onclick=*"getValue('*${list.category\_Id }*','*${list.category\_Name }*'),handler(this)"* ><span class=*"glyphicon glyphicon-cog"* aria-hidden=*"true"*></span> 修改</button>  <button class=*"btn btn-danger"* onclick=*"del('*${list.category\_Id }*')"* > <span class=*"glyphicon glyphicon-trash"* aria-hidden=*"true"*></span>删除</button></td>  </tr>  </c:forEach>  </table>  </form>  </body>  </html> |
| 6.技术难点与分析 1. 在使用ajax引擎中，主要的难点在于接受Servlet发送的Json的数据的解析的问题，解决方法：首先在ajax将数据类型设置dataType: "json",在success(data)中将参数data进行解析，如果为List对象需要先用for in函数进行遍历赋值，最后再通过$().html()方法来改变界面。  2. 在管理员管理投票信息页面中，主要难点在于在同一界面中实现添加删除，解决方法：在同一表单中，通过点击不同的按钮，使用$(#form).attr("action", )来改变form中action的值，来实现提交不同的地址，从而实现添加与删除。 |