



中国大学生服务外包  
创新创业大赛  
China Students Service Outsourcing  
Innovation and Entrepreneurship Competition

**NTT DATA**

**软件项目工程师奖金管理系统**

**(程序设计报告)**

# 1. 项目总则细则设定

主要对应以系统管理员登录权限的功能，包括项目总则设定，奖金标准设定，正式社员细则标准，连携部分细则设定，bp 部分细则设定，申请时已退职社员细则设定。

该模块总则设定业务层代码如下：

```
package com.ntt.dao;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.ArrayList;
import java.util.List;
import com.ntt.model.PageBean;
import com.ntt.model.ZongZe;
import com.ntt.util.StringUtil;

public class ZongZeDao {

    /**
     * zongZe List method
     *
     * @param con
     * @param pageBean
     * @param s_zongZe
     * @return
     * @throws Exception
     */

    public List<ZongZe> zongZeList(Connection con, PageBean pageBean, ZongZe
s_zongZe) throws Exception {

        List<ZongZe> zongZesList = new ArrayList<ZongZe>();
        StringBuffer sb = new StringBuffer("SELECT * FROM t_zongze t1");
        if (StringUtil.isNotEmpty(s_zongZe.getCenterName())) {
            sb.append(" where t1.centerName like '%" + s_zongZe.getCenterName()
+ "%'");
        }
    }
}
```

```

    }

    if (pageBean != null) {
        sb.append("    limit    " + pageBean.getStart() + ", " +
pageBean.getPageSize());
    }

    PreparedStatement pstmt = con.prepareStatement(sb.toString());

    ResultSet rs = pstmt.executeQuery();

    while (rs.next()) {
        ZongZe zongZe = new ZongZe();

        zongZe.setCenterId(rs.getInt("centerId"));

        zongZe.setCenterName(rs.getString("centerName"));

        zongZe.setBpRate(rs.getString("bpRate"));

        zongZe.setProjectRateUp(rs.getString("projectRateUp"));

        zongZe.setProjectRateDown(rs.getString("projectRateDown"));

        zongZe.setShareBonusRateUp(rs.getString("shareBonusRateUp"));

        zongZe.setShareBonusRateDown(rs.getString("shareBonusRateDown"));

        zongZe.setTuijianRate(rs.getString("tuijianRate"));

        zongZesList.add(zongZe);
    }

    return zongZesList;
}

```

```

/**

```

```

 * zongze count function

```

```

 *

```

```

 * @param con

```

```

 * @param s_ZongZe

```

```

 * @return

```

```

 * @throws Exception

```

```

 */

```

```

public int zongZeCount(Connection con, ZongZe s_ZongZe) throws Exception {

```

```

        StringBuffer sb = new StringBuffer("select count(*) as total from
t_zongze t1");

        if (StringUtil.isEmpty(s_ZongZe.getCenterName())) {
            sb.append(" where t1.centerName like '%" + s_ZongZe.getCenterName()
+ "%'");
        }

        PreparedStatement pstmt = con.prepareStatement(sb.toString());
        ResultSet rs = pstmt.executeQuery();
        if (rs.next()) {
            return rs.getInt("total");
        } else {
            return 0;
        }
    }
}

```

/\*\*

\* zongze show function

\*

\* @param con

\* @param centerId

\* @return

\* @throws Exception

\*/

```

public ZongZe zongZeShow(Connection con, String centerId) throws Exception
{

```

```

    String sql = "select * from t_zongze t1 where t1.centerId=?";

```

```

    PreparedStatement pstmt = con.prepareStatement(sql);

```

```

    pstmt.setString(1, centerId);

```

```

    ResultSet rs = pstmt.executeQuery();

```

```

    ZongZe zongZe = new ZongZe();

```

```

    if (rs.next()) {

```

```

        zongZe.setCenterId(rs.getInt("centerId"));
    }
}

```

```

        zongZe.setCenterName(rs.getString("centerName"));
        zongZe.setBpRate(rs.getString("bpRate"));
        zongZe.setProjectRateUp(rs.getString("projectRateUp"));
        zongZe.setProjectRateDown(rs.getString("projectRateDown"));
        zongZe.setShareBonusRateUp(rs.getString("shareBonusRateUp"));
        zongZe.setShareBonusRateDown(rs.getString("shareBonusRateDown"));
        zongZe.setTuijianRate(rs.getString("tuijianRate"));
    }

    return zongZe;
}

```

```

/**

```

```

 * ZONGZE ADD FUNCTION

```

```

 *

```

```

 * @param con

```

```

 * @param zongZe

```

```

 * @return

```

```

 * @throws Exception

```

```

 */

```

```

public int zongZeAdd(Connection con, ZongZe zongZe) throws Exception {
    String sql = "insert into t_zongze values(null,?,?,?,?,?,?,?)";
    PreparedStatement pstmt = con.prepareStatement(sql);
    pstmt.setString(1, zongZe.getCenterName());
    pstmt.setString(2, zongZe.getBpRate());
    pstmt.setString(3, zongZe.getProjectRateUp());
    pstmt.setString(4, zongZe.getProjectRateDown());
    pstmt.setString(5, zongZe.getShareBonusRateUp());
    pstmt.setString(6, zongZe.getShareBonusRateDown());
    pstmt.setString(7, zongZe.getTuijianRate());
    return pstmt.executeUpdate();
}

```

```

/**
 * Delete Function
 *
 * @param con
 * @param centerId
 * @return
 * @throws Exception
 */
public int zongZeDelete(Connection con, String centerId) throws Exception
{
    String sql = "delete from t_zongze where centerId=?";
    PreparedStatement pstmt = con.prepareStatement(sql);
    pstmt.setString(1, centerId);
    return pstmt.executeUpdate();
}

/**
 * ZONGZE UPDATE FUNCTION
 *
 * @param con
 * @param zongze
 * @return
 * @throws Exception
 */
public int zongZeUpdate(Connection con, ZongZe zongze) throws Exception {
    String sql = "update t_zongze set centerName=?, bpRate=?, projectRateUp=?, projectRateDown=?, shareBonusRateUp=?, shareBonusRateDown=?, tuijianRate=? where centerId=?";
    PreparedStatement pstmt = con.prepareStatement(sql);
    pstmt.setString(1, zongze.getCenterName());
    pstmt.setString(2, zongze.getBpRate());

```

```

        pstmt.setString(3, zongze.getProjectRateUp());
        pstmt.setString(4, zongze.getProjectRateDown());
        pstmt.setString(5, zongze.getShareBonusRateUp());
        pstmt.setString(6, zongze.getShareBonusRateDown());
        pstmt.setString(7, zongze.getTuijianRate());
        pstmt.setInt(8, zongze.getCenterId());
        return pstmt.executeUpdate();
    }

    /**
     * serach data by centername
     *
     * @param con
     * @param name
     * @return
     * @throws Exception
     */
    public boolean haveCenterByCenterName(Connection con, String name) throws
    Exception {
        String sql = "select * from t_zongze t1 where t1.centerName=?";
        PreparedStatement pstmt = con.prepareStatement(sql);
        pstmt.setString(1, name);
        ResultSet rs = pstmt.executeQuery();
        if (rs.next()) {
            return true;
        }
        return false;
    }
}

```

## 2. 项目奖金总额申请

此模块的功能可以导入项目基本信息，并对应该项目申请奖金，其主要字段、类型等见下表 1-1。

	字段内容	类型	说明
1	申请 ID	字符型，10 位英字	Key: 0000102779
2	财务 ID	字符型	
3	项目名称	字符型	项目名称信息可以从其他数据导入作为 Master 数据
4	P M 员工 ID	字符型，6 位英字	注意姓名的匹配
5	部门 I D	字符型，10 位英字	注意部门名称的匹配
6	部门名称	字符型，50 位英字	
7	正式社员人月数	数值型，2 位小数	最大值 10000 即可
8	B P 人月数	数值型，2 位小数	最大值 10000 即可
9	连携人月数	数值型，2 位小数	最大值 10000 即可
10	离职人月数	数值型，2 位小数	最大值 10000 即可
11	申请对象期间	字符型，150 字	
12	申请者 I D	字符型，6 位英字	
13	备注	字符型，150 字	
14	申请日期	日期型	

表 1-1 项目奖金总额申请字段表

实际操作页面可见图 1-1 及图 1-2

财务ID	项目名称	受注实绩	请求实绩	连携实绩	项目开始日	项目结束日	操作	奖金申请
5W211011605	项目1	50.0	50.0	40.0	2016-08-01	2016-08-02	<a href="#">修改更新</a> <a href="#">删除</a>	<a href="#">奖金申请</a> <a href="#">查询</a>
5W211011505	项目2	40.0	40.0	10.0	2016-07-01	2016-07-31	<a href="#">修改更新</a> <a href="#">删除</a>	<a href="#">奖金申请</a> <a href="#">查询</a>
3	3	3.0	3.0	3.0	2017-08-15	2017-08-15	<a href="#">修改更新</a> <a href="#">删除</a>	<a href="#">奖金申请</a> <a href="#">查询</a>

图 1-1 页面一



财务ID	项目名称	部门名称	申请人姓名	正式员工人月数	BP人月数	连携人月数	离职人月数	申请日期	奖金总额
5W211011605	项目1	2H1B	张三	40.0	10.0	40.0	0.0	1-3月	75000

图 1-2 导入信息页面

该模块的关键代码如下：

```
public class AppliBonusDao {

//列出所有项目

public List<AppliBonus> appliBonusList(Connection con, PageBean pageBean,
AppliBonus s_AppliBonus) throws Exception {

    List<AppliBonus> appliBonusList = new ArrayList<AppliBonus>();

    StringBuffer sb = new StringBuffer("SELECT * FROM t_project t1");

    if (StringUtil.isEmpty(s_AppliBonus.getProjectName())) {

        sb.append("      where      t1.projectName      like      '%"      +
s_AppliBonus.getProjectName() + "%'");

    }

    if (pageBean != null) {

        sb.append("      limit      "      +      pageBean.getStart()      +      ", "      +
pageBean.getPageSize());

    }

    PreparedStatement pstmt = con.prepareStatement(sb.toString());

    ResultSet rs = pstmt.executeQuery();

    while (rs.next()) {

        AppliBonus appliBonus = new AppliBonus();

        appliBonus.setProjectId(rs.getInt("projectId"));

        appliBonus.setFinancialId(rs.getString("financialId"));

        appliBonus.setProjectName(rs.getString("projectName"));

        appliBonus.setOrderPerformance(rs.getDouble("orderPerformance"));

        appliBonus.setRequestPerformance(rs.getDouble("requestPerformance"));

    }

}
```

```

appliBonus.setSupportPerformance(rs.getDouble("supportPerformance"));

    appliBonus.setProjectStartDate(rs.getDate("projectStartDate"));
    appliBonus.setProjectEndDate(rs.getDate("projectEndDate"));
    appliBonus.setCenterId(rs.getInt("centerId"));
    appliBonusList.add(appliBonus);
}

return appliBonusList;
}

```

```

public int appliBonusCount(Connection con, AppliBonus s_AppliBonus) throws
Exception {

    StringBuffer sb = new StringBuffer("select count(*) as total from
t_project t1");

    if (StringUtil.isEmpty(s_AppliBonus.getProjectName())) {

        sb.append("      where      t1.projectName      like      '%"
s_AppliBonus.getProjectName() + "%'");
    }

    PreparedStatement pstmt = con.prepareStatement(sb.toString());

    ResultSet rs = pstmt.executeQuery();

    if (rs.next()) {

        return rs.getInt("total");

    } else {

        return 0;

    }

}

```

```

    public AppliBonus appliBonusShow(Connection con, String projectId) throws
Exception {

    String sql = "select * from t_project t1 where t1.projectId=?";

    PreparedStatement pstmt = con.prepareStatement(sql);

    pstmt.setString(1, projectId);

    ResultSet rs = pstmt.executeQuery();

    AppliBonus appliBonus = new AppliBonus();

    if (rs.next()) {

        appliBonus.setProjectId(rs.getInt("projectId"));

        appliBonus.setFinancialId(rs.getString("financialId"));

        appliBonus.setProjectName(rs.getString("projectName"));

        appliBonus.setOrderPerformance(rs.getDouble("orderPerformance"));

        appliBonus.setRequestPerformance(rs.getDouble("requestPerformance"));

        appliBonus.setSupportPerformance(rs.getDouble("supportPerformance"));

        appliBonus.setProjectStartDate(rs.getDate("projectStartDate"));

        appliBonus.setProjectEndDate(rs.getDate("projectEndDate"));

    }

    return appliBonus;

}

```

//添加新项目

```

    public int appliBonusAdd(Connection con, AppliBonus appliBonus) throws
Exception {

    String sql = "insert into t_project values(null,?,?,?,?,?,?,?,null)";

    PreparedStatement pstmt = con.prepareStatement(sql);

    pstmt.setString(1, appliBonus.getFinancialId());

    pstmt.setString(2, appliBonus.getProjectName());

    pstmt.setString(3, appliBonus.getProjectStartDate());

    pstmt.setString(4, appliBonus.getProjectEndDate());

    pstmt.setString(5, appliBonus.getOrderPerformance());

    pstmt.setString(6, appliBonus.getRequestPerformance());

    pstmt.setString(7, appliBonus.getSupportPerformance());

    return pstmt.executeUpdate();

}

```

```

        pstmt.setDouble(3, appliBonus.getOrderPerformance());
        pstmt.setDouble(4, appliBonus.getRequestPerformance());
        pstmt.setDouble(5, appliBonus.getSupportPerformance());
        pstmt.setDate(6, new
java.sql.Date(appliBonus.getProjectStartDate().getTime()));
        pstmt.setDate(7, new
java.sql.Date(appliBonus.getProjectEndDate().getTime()));
        return pstmt.executeUpdate();
    }

```

//项目删除

```

    public int appliBonusDelete(Connection con, String projectId) throws
Exception {
        String sql = "delete from t_project where projectId=?";
        PreparedStatement pstmt = con.prepareStatement(sql);
        pstmt.setString(1, projectId);
        return pstmt.executeUpdate();
    }

```

//项目内容更新

```

    public int appliBonusUpdate(Connection con, AppliBonus appliBonus) throws
Exception {
        String sql = "update t_project set
financialId=?, projectName=?, orderPerformance=?, requestPerformance=?, support
Performance=?, projectStartDate=?, projectEndDate=? where projectId=?";
        PreparedStatement pstmt = con.prepareStatement(sql);
        pstmt.setString(1, appliBonus.getFinancialId());
        pstmt.setString(2, appliBonus.getProjectName());
        pstmt.setDouble(3, appliBonus.getOrderPerformance());
        pstmt.setDouble(4, appliBonus.getRequestPerformance());
        pstmt.setDouble(5, appliBonus.getSupportPerformance());

```

```

        pstmt.setDate(6,
java.sql.Date(appliBonus.getProjectStartDate().getTime()));
        pstmt.setDate(7,
java.sql.Date(appliBonus.getProjectEndDate().getTime()));
        pstmt.setInt(8, appliBonus.getProjectId());
        return pstmt.executeUpdate();
    }

    public boolean haveCenterByProjectName(Connection con, String name) throws
Exception {
        String sql = "select * from t_project t1 where t1.projectName=?";
        PreparedStatement pstmt = con.prepareStatement(sql);
        pstmt.setString(1, name);
        ResultSet rs = pstmt.executeQuery();
        if (rs.next()) {
            return true;
        }
        return false;
    }
}

```

### 3. 项目奖金及各经费额度划分

主要功能：

- 可以对申请过奖金的按总则、细则进行划分
- 可以进行一键划分

图 1-3 显示了主要按钮功能等信息。

全选	财务ID	项目名称	正式员工人数	BP人数	连携人数	离职人数	申请日期	奖金总额	是否划分	金额划分调整
<input type="checkbox"/>	5W211011605	项目1	40.0	10.0	40.0	0.0	1-3月	1-3月	已划分	<a href="#">总则划分</a> <a href="#">按细则划分修改</a>
<input type="checkbox"/>	5W211011505	项目2	30.0	10.0	10.0	0.0	4-6月	4-6月	未划分	<a href="#">总则划分</a> <a href="#">按细则划分修改</a>

图 1-3 划分页面

当按总则细则划分后的数据，可以选择个别申请记录的额度划分进行单独调整具体金额，如图 1-4 所示。

	奖金总额	中心	本部	部门	PM
调整结果	75000	6594	4011	16977	47417
调整额	75000	<input type="text" value="-500"/>	<input type="text" value="+100"/>	<input type="text" value="+400"/>	<input type="text"/>
按照规则划分	75000	6094	4011	17377	47417

图 1-4 单独调整页面

该模块关键代码如下：

```
public class AppliBonusServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
    DbUtil dbUtil = new DbUtil();
    AppliBonusDao appliBonusDao = new AppliBonusDao();
    MD5Util md5util = new MD5Util();

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        this.doPost(request, response);
    }

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        request.setCharacterEncoding("utf-8");
        HttpSession session = request.getSession();
        String s_appliBonusText = request.getParameter("s_appliBonusText");
        String searchType = request.getParameter("searchType");
        String page = request.getParameter("page");
        String action = request.getParameter("action");
    }
}
```

```
AppliBonus appliBonus = new AppliBonus();  
if ("preSave".equals(action)) {  
    appliBonusPreSave(request, response);  
    return;  
} else if ("save".equals(action)) {  
    appliBonusSave(request, response);  
    return;  
} else if ("delete".equals(action)) {  
    appliBonusDelete(request, response);  
    return;  
} else if ("list".equals(action)) {  
    if (StringUtil.isEmpty(s_appliBonusText)) {  
        if ("projectName".equals(searchType)) {  
            appliBonus.setProjectName(s_appliBonusText);  
        }  
    }  
    session.removeAttribute("s_appliBonusText");  
    session.removeAttribute("searchType");  
    request.setAttribute("s_appliBonusText", s_appliBonusText);  
    request.setAttribute("searchType", searchType);  
} else if ("search".equals(action)) {  
    if (StringUtil.isEmpty(s_appliBonusText)) {  
        if ("projectName".equals(searchType)) {  
            appliBonus.setProjectName(s_appliBonusText);  
        }  
        session.setAttribute("searchType", searchType);  
        session.setAttribute("s_appliBonusText", s_appliBonusText);  
    } else {  
        session.removeAttribute("s_appliBonusText");  
        session.removeAttribute("searchType");  
    }  
}
```

```

    } else {
        if (StringUtil.isNotEmpty(s_appliBonusText)) {
            if ("projectName".equals(searchType)) {
                appliBonus.setProjectName(s_appliBonusText);
            }
            session.setAttribute("searchType", searchType);
            session.setAttribute("s_appliBonusText", s_appliBonusText);
        }
        if (StringUtil.isEmpty(s_appliBonusText)) {
            Object o1 = session.getAttribute("s_appliBonusText");
            Object o2 = session.getAttribute("searchType");
            if (o1 != null) {
                if ("projectName".equals((String) o2)) {
                    appliBonus.setProjectName((String) o1);
                }
            }
        }
    }

    if (StringUtil.isEmpty(page)) {
        page = "1";
    }

    Connection con = null;

    PageBean pageBean = new PageBean(Integer.parseInt(page),
Integer.parseInt(PropertiesUtil.getValue("pageSize")));

    request.setAttribute("pageSize", pageBean.getPageSize());
    request.setAttribute("page", pageBean.getPage());
    try {
        con = dbUtil.getCon();

        List<AppliBonus> appliBonusList = appliBonusDao.appliBonusList(con,
pageBean, appliBonus);

```



```

        int total = appliBonusDao.appliBonusCount(con, appliBonus);
        String pageCode = this.genPagation(total, Integer.parseInt(page),
            Integer.parseInt(PropertiesUtil.getValue("pageSize")));
        request.setAttribute("pageCode", pageCode);
        request.setAttribute("appliBonusList", appliBonusList);
        request.setAttribute("mainPage", "charger/appliBonus.jsp");
        request.getRequestDispatcher("mainCharger.jsp").forward(request,
response);
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        try {
            dbUtil.closeCon(con);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}

```

```

private void appliBonusDelete(HttpServletRequest request,
HttpServletResponse response) {
    String centerId = request.getParameter("projectId");
    Connection con = null;
    try {
        con = dbUtil.getCon();
        appliBonusDao.appliBonusDelete(con, centerId);
        request.getRequestDispatcher("appliBonus?action=list").forward(request,
response);
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        try {

```

```

        dbUtil.closeCon(con);
    } catch (Exception e) {
        e.printStackTrace();
    }
}
}

```

```

private void appliBonusSave(HttpServletRequest request,
                             HttpServletResponse response)
    throws ServletException, IOException {
    String projectId = request.getParameter("projectId");
    String financialId = request.getParameter("financialId");
    String projectName = request.getParameter("projectName");
    String orderPerformance = request.getParameter("orderPerformance");
    String requestPerformance = request.getParameter("requestPerformance");
    String supportPerformance = request.getParameter("supportPerformance");
    Double i1 = Double.parseDouble(orderPerformance);
    Double i2 = Double.parseDouble(requestPerformance);
    Double i3 = Double.parseDouble(supportPerformance);
    String projectStartDate = request.getParameter("projectStartDate");
    String projectEndDate = request.getParameter("projectEndDate");
    DateFormat fmt =new SimpleDateFormat("yyyy-MM-dd");
    Date date1 = null;
    Date date2 = null;
    try {
        date1 = fmt.parse(projectStartDate);
        date2 = fmt.parse(projectEndDate);
    } catch (ParseException e1) {
        e1.printStackTrace();
    }
}

```

```

        AppliBonus appliBonus = new AppliBonus(financialId, projectName, i1, i2,
i3, date1, date2);

        if (StringUtil.isEmpty(projectId)) {

            appliBonus.setProjectId(Integer.parseInt(projectId));

        }

        Connection con = null;

        try {

            con = dbUtil.getCon();

            int saveNum = 0;

            if (StringUtil.isEmpty(projectId)) {

                saveNum=appliBonusDao.appliBonusUpdate(con, appliBonus);

            } else if (appliBonusDao.haveCenterByProjectName(con,
appliBonus.getProjectName())) {

                request.setAttribute("appliBonus", appliBonus);

                request.setAttribute("error", "该项目已存在");

                request.setAttribute("mainPage",
"charger/appliBonusSave.jsp");

                request.getRequestDispatcher("mainCharger.jsp").forward(request,
response);

                //添加项目的时候进行判定项目是否存在，若存在则弹出提示。

```

```

            try {

                dbUtil.closeCon(con);

            } catch (Exception e) {

                e.printStackTrace();

            }

            return;

        } else {

```

```

        saveNum = appliBonusDao.appliBonusAdd(con, appliBonus);
    }

    if (saveNum > 0) {

        request.getRequestDispatcher("appliBonus?action=list").forward(request,
response);

        } else {

            request.setAttribute("appliBonus", appliBonus);

            request.setAttribute("error", "保存失败");

            request.setAttribute("mainPage",
"charger/appliBonusSave.jsp");

            request.getRequestDispatcher("mainCharger.jsp").forward(request,
response);

        }

    } catch (Exception e) {

        e.printStackTrace();

    } finally {

        try {

            dbUtil.closeCon(con);

        } catch (Exception e) {

            e.printStackTrace();

        }

    }

}

private void appliBonusPreSave(HttpServletRequest request,
HttpServletResponse response)

throws ServletException, IOException {

    String projectId = request.getParameter("projectId");

    if (StringUtil.isEmpty(projectId)) {

        Connection con = null;

        try {

            con = dbUtil.getCon();

```

```

        AppliBonus appliBonus = appliBonusDao.appliBonusShow(con,
projectId);

        request.setAttribute("appliBonus", appliBonus);
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        try {
            dbUtil.closeCon(con);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}

request.setAttribute("mainPage", "charger/appliBonusSave.jsp");
request.getRequestDispatcher("mainCharger.jsp").forward(request,
response);
}

```

```

private String genPagation(int totalNum, int currentPage, int pageSize) {
    int totalPage = totalNum % pageSize == 0 ? totalNum / pageSize : totalNum
/ pageSize + 1;

    StringBuffer pageCode = new StringBuffer();
    pageCode.append("<a href='appliBonus?page=1'>首页</a>");
    if (currentPage == 1) {
        pageCode.append("<class='disabled'><a href='#'>上一页</a>");
    } else {
        pageCode.append("<a href='appliBonus?page=" + (currentPage - 1) +
"">上一页</a>");
    }

    for (int i = currentPage - 2; i <= currentPage + 2; i++) {
        if (i < 1 || i > totalPage) {
            continue;

```

```

    }
    if (i == currentPage) {
        pageCode.append("<class='active'><a href='#'>" + i + "</a>");
    } else {
        pageCode.append("<a href='appliBonus?page=" + i + "'>" + i +
"</a>");
    }
}
if (currentPage == totalPage) {
    pageCode.append("<class='disabled'><a href='#'>下一页</a>");
} else {
    pageCode.append("<a href='appliBonus?page=" + (currentPage + 1) +
"'>下一页</a>");
}
pageCode.append("<a href='appliBonus?page=" + totalPage + "'>尾页
</a>");
return pageCode.toString();
}
}

```