## 为单据增加分页功能

2017.8.4 by 杨涛

## 1.配置文件的修改

}

(1) 在列表视图中添加分页控件,新增内容为红色字体部分:

```
<bean id="listView"</pre>
class="nc.ui.mapub.costpricebase.view.CostPriceListView"
       init-method="initUI">
       cproperty name="model" ref="manageAppModel"/>
       cproperty name="templateContainer" ref="templateContainer"/>
       cproperty name="paginationBar" ref="paginationBar">
</bean>
  注: 若上述 listView 使用的是平台封装的类
nc.ui.pubapp.uif2app.view.ShowUpableBillListView,则不需要对分页条进行初
始化,因为平台的初始化方法中已经设置了。但如果这里才自己的类来实现,由
于重写了 initUI 方法,需要加入分页条,如红色字体代码部分:
public class CostPriceListView extends ShowUpableBillListView {
    private static final long serialVersionUID = -8906686830841878902L;
    private PaginationBar paginationBar;
    @Override
    public PaginationBar getPaginationBar() {
        return this. paginationBar;
    @Override
    public void setPaginationBar (PaginationBar paginationBar) {
        this. paginationBar = paginationBar;
        }
    @Override
    public void initUI() {
       super. initUI();
CostPriceBaseScaleUtil().setListScale(this.getModel().getContext().getPk group()
, this.getBillListPanel());
       this.getBillListPanel().getHeadBillModel().setSortColumn(new String[] {
           CostPriceHeadVO. PK ORG, CostPriceHeadVO. CCOSTPRICEID
       });
       this. billListPanel. addMouseListener (this);
       if (null != this.paginationBar) {
           this. billListPanel. addHeadNavigatePanel (this. paginationBar);
```

(2) 增加分页控件和分页模型,如下,均采用平台的类

(3) 修改之前的查询服务代理,对查询结果进行分页处理,重新配置代理为:

```
      <!-- 单据查询代理 -->

      <bean id="queryProxy"</td>

      class="nc.ui.mapub.costpricebase.serviceproxy.CostPriceBaseQueryProxy" />

      <!-- 分页代理 -->

      <bean</td>
      id="paginationProxy"

      class="nc.ui.mapub.costpricebase.serviceproxy.CostPriceBasePaginationProxy" />
```

(4)修改数据模型管理器,并添加分页服务接口,需要将之前的查询代理删除,并修改数据模型管理器的类为平台封装的分页模型数据管理类: nc.ui.pubapp.uif2app.model.pagination.PaginationModelDataManager。分页服务接口定义了查询时访问的方法。

```
<!-- 数据模型管理器,主要负责各种方式的模型初始化 -->
   <bean id="modelDataManager"</pre>
class="nc.ui.pubapp.uif2app.model.pagination.PaginationModelDataManager">
      cproperty name="model" ref="manageAppModel"></property>
<!-- <pre>roperty name="service" ref="queryProxy">
      cproperty name="paginationModel" ref="paginationmodel">
      cproperty name="pageQueryService" ref="pageQueryService" />
   </bean>
   <!-- 分页服务接口 -->
   <bean id="pageQueryService"</pre>
class="nc.ui.pubapp.uif2app.model.pagination.UIPageQueryService">
      cproperty name="allPagePkQueryServiceMethod"
value="nc.itf.mapub.costpricebase.ICostPriceBasePaginationService.queryPKs"><</pre>
/property>
      property name="dataOfPksQueryServiceMethod"
value="nc.itf.mapub.costpricebase.ICostPriceBasePaginationService.queryBillBy
PK"></property>
   </bean>
```

2.分页代理类 paginationProxy,代理类实现了 IPaginationQueryService 接口。在实现的接口方法 queryObjectByPks 中,通过 NCLocator.getInstance().lookup(ICostPriceBasePaginationService.class)向后台请求数据,因此需要定义接口 ICostPriceBasePaginationService 及实现 CostPriceBasePaginationServiceImpl。

```
import nc.bs.framework.common.NCLocator;
import nc.itf.mapub.costpricebase.ICostPriceBasePaginationService;
import nc.ui.uif2.components.pagination.IPaginationQueryService;
import nc.vo.mapub.costpricebase.entity.CostPriceAggVO;
import nc.vo.pub.BusinessException;
import nc.vo.pubapp.pattern.exception.ExceptionUtils;
/**
 * @since v6.3
 * @version 2017年8月2日 下午6:55:51
 * @author Administrator
public class CostPriceBasePaginationProxy implements IPaginationQueryService {
   /*根据主键数组查询,返回实际的 VO
    * 参数: 主键数组 pks
    * @see
nc.ui.uif2.components.pagination.IPaginationQueryService#queryObjectByPks(java.lang.Str
ing[])
    */
   @Override
   public Object[] queryObjectByPks(String[] pks) throws BusinessException {
       // TODO Auto-generated method stub
       CostPriceAggVO[] rets = null;
       ICostPriceBasePaginationService paginationQueryService =
              NCLocator.getInstance().lookup(ICostPriceBasePaginationService.class);
       try {
           rets = paginationQueryService.queryBillByPK(pks);
       }
       catch (Exception e) {
           ExceptionUtils.wrappException(e);
       return rets;
   }
}
```

## 3.分页查询接口,ICostPriceBasePaginationService

```
package nc.itf.mapub.costpricebase;
import nc.ui.querytemplate.querytree.IQueryScheme;
import nc.vo.mapub.costpricebase.entity.CostPriceAggVO;
import nc.vo.pub.BusinessException;

/**

* @since v6.3

* @version 2017 年 8 月 2 日 下午 7:01:58

* @author Administrator

*/
public interface ICostPriceBasePaginationService {

//根据查询条件进行查询,返回主键数组
public String[] queryPKs(IQueryScheme queryScheme) throws BusinessException;

//根据主键数组进行查询,返回 VO
public CostPriceAggVO[] queryBillByPK(String[] pks) throws BusinessException;
}
```

4.分页查询接口实现,CostPriceBasePaginationServiceImpl。实现类实现了接口定义的两个方法,方法 queryPKs 根据查询条件从数据库中获取符合条件的所有主键,返回主键数组 keys,可根据业务需求对 keys 进行过滤,筛选出需要的数据。方法 queryBillByPK 根据主键数组查询实际的 VO。

注: ICostPriceBasePaginationService 和 CostPriceBasePaginationServiceImpl 实现之后需要在 upm 文件中进行配置:

```
package nc.impl.mapub.costpricebase;
import nc.impl.pubapp.pattern.data.bill.BillQuery;
import nc.impl.pubapp.pattern.database.DataAccessUtils;
import nc.itf.mapub.costpricebase.ICostPriceBasePaginationService;
import nc.ui.querytemplate.querytree.IQueryScheme;
import nc.vo.mapub.costpricebase.entity.CostPriceAggVO;
import nc.vo.mapub.costpricebase.entity.CostPriceHeadVO;
import nc.vo.pub.BusinessException;
import nc.vo.pubapp.bill.pagination.util.PaginationUtils;
import nc.vo.pubapp.pattern.data.IRowSet;
import nc.vo.pubapp.query2.sql.process.QuerySchemeProcessor;
public class CostPricePaginationServiceImpl implements ICostPriceBasePaginationService {
    *根据查询条件构造 sql 语句,并进行相应的筛选处理,返回主键数组
    */
   @Override
   public String[] queryPKs(IQueryScheme queryScheme) throws BusinessException {
       StringBuffer sql = new StringBuffer();
       QuerySchemeProcessor processor = new QuerySchemeProcessor(queryScheme);
       // 默认组织权限
       processor.appendFuncPermissionOrgSql();
       // 获得主表别名
       String mainAlias = processor.getMainTableAlias();
       sql.append("select ");
       sql.append(mainAlias);
       sql.append(".");
       sql.append(CostPriceHeadVO.CCOSTPRICEID);
       sql.append(processor.getFinalFromWhere()); // 获得加工之后最终的 sql
       sql.append(" order by ").append(CostPriceHeadVO.CREATETIME);
       DataAccessUtils dao = new DataAccessUtils();
       IRowSet rowSet = dao.query(sql.toString());
       String[] keys = rowSet.toOneDimensionStringArray(); // 转化为一维字符串数组
       return keys; //可根据业务需求对 keys 进行过滤
   }
   /*根据主键数组查询
    */
   @Override
   public CostPriceAggVO[] queryBillByPK(String[] pks) throws BusinessException {
       // TODO Auto-generated method stub
       CostPriceAggVO[] bills = null;
       BillQuery<CostPriceAggVO> billQuery = new
BillQuery<CostPriceAggVO>(CostPriceAggVO.class);
       bills = billQuery.query(pks);
       return PaginationUtils.filterNotExistBills(bills, pks);
   }
```