宝时WCS源码文档

项目架构

组件应用

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打可执行jar的配置
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<pre><pre><pre><pre></pre></pre></pre></pre> <pre><pre><pre><pre><pre><pre><pre><</pre></pre></pre></pre></pre></pre></pre>
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<finalname>wcs</finalname>

程序入口

import java.util.Date;

```
package com.baoshi.wcs;
import org.mybatis.spring.annotation.MapperScan;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.boot.autoconfigure.jdbc.DataSourceAutoConfiguration;
@SpringBootApplication
@MapperScan("com.baoshi.wcs.dao")
public class WcsApplication {
  public static void main(String[] args) {
    SpringApplication.run(WcsApplication.class, args);
  }
}
配置
全局事物 异常捕获 日志存储
package com.baoshi.wcs.aspect;
import com.baoshi.wcs.common.enumeration.EventCodeEnum;
import com.baoshi.wcs.common.enumeration.RequestorEnum;
import com.baoshi.wcs.common.response.WCSApiResponse;
import com.baoshi.wcs.common.utils.DateUtil;
import com.baoshi.wcs.entity.Requestor;
import com.baoshi.wcs.service.RequestorService;
import org.aspectj.lang.ProceedingJoinPoint;
import org.aspectj.lang.annotation.Around;
import org.aspectj.lang.annotation.Aspect;
import org.aspectj.lang.annotation.Pointcut;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.annotation.Configuration;
import org.springframework.http.HttpStatus;
import org.springframework.util.StringUtils;
import org.springframework.web.context.request.RequestAttributes;
import org.springframework.web.context.request.RequestContextHolder;
import org.springframework.web.context.request.ServletRequestAttributes;
import javax.servlet.http.HttpServletRequest;
import java.text.ParseException;
```

```
@Aspect
```

```
@Configuration
```

```
public class LogRecordAspect {
  private static final Logger logger = LoggerFactory.getLogger(LogRecordAspect.class);
  @Autowired
  Request or Service request or Service;
   * 定义切点Pointcut
   */
  @Point cut ("execution(* com.baoshi.wcs.web.controller.*Controller.*(..))")
  public void excudeService() {
  @Around("excudeService()")
  public Object doAround(ProceedingJoinPoint pjp) throws Throwable {
     RequestAttributes ra = RequestContextHolder.getRequestAttributes();
     ServletRequestAttributes sra = (ServletRequestAttributes) ra;
     HttpServletRequest request = sra.getRequest();
     WCSApiResponse response = new WCSApiResponse();
     Requestor requestor = this.getReqeestorInfo(request);
     // result的值就是被拦截方法的返回值
     Object result = null;
     try {
        result = pjp.proceed();
     } catch (Throwable ex) {
        logger.error("aop ex:", ex);
        if (ex instanceof org.springframework.web.servlet.NoHandlerFoundException) {
          response.setCode(HttpStatus.NOT_FOUND.value());
          response.setMsg("服务路径访问错误.");
        } else {
          response.setCode(HttpStatus.INTERNAL_SERVER_ERROR.value());
          response.set Msg("服务内部错误");
        }
        response.setRequestorVO(requestor);
        response.setServerMsg(ex.getMessage());
        return response;
     }
     boolean saveRes = request orService.save(request or);
     if (result instanceof WCSApiResponse) {
        //如果返回的类型是WCSApiResponse 则强转 代替之前声明的WCSApiResponse
        response = (WCSApiResponse) result;
     } else {
```

```
response.set Dat a(result);
        response.setCode(HttpStatus.OK.value());
     response.setRequestorVO(requestor);
     return response;
  }
  private Requestor getRequestorInfo(HttpServletRequest request) {
     String request or Code = request.getParameter("requestor");
     String reqDate = request.getParameter("reqDate");
     String eventCode = request.getParameter("eventCode");
     /**
      * 校验调用者
      */
     if (StringUtils.isEmpty(requestorCode)) {
        request or Code = Integer.toString(Request or Enum. GENERAL_USER.get Code());
     } else {
        String role = Request or Enum. getRole(Integer.parseInt(request or Code));
        if (StringUtils.isEmpty(role)) {
           //TODO 错误的请求角色编码,暂时处理为普通用户
          request or Code =
Integer.toString(RequestorEnum.GENERAL_USER.getCode());
     }
     Requestor requestor = new Requestor();
     requestor.setRequestor(requestorCode);
     /**
      * 校验请求时间
     if (StringUtils.isEmpty(reqDate)) {
        request or.set RegDate(new Date());
     } else {
        Date regDateParam = null;
        try {
           reqDateParam = DateUtil.format(DateUtil.YYYY_MM_DD_HHMMSS_Formater,
reqDate);
        } catch (ParseException e) {
          reqDateParam = new Date();
        request or.set ReqDate(reqDateParam);
     }
     /**
      * 校验事件编码
     if (StringUtils.isEmpty(eventCode)) {
```

```
eventCode =
Integer.toString(EventCodeEnum.UNKNOWN_EVENT.getEventCode());
     request or.set Event Code(event Code);
     return requestor;
  }
扫码称重
λ□API
package com.baoshi.wcs.web.controller;
import com.alibaba.fast json.JSON;
import com.baoshi.wcs.common.response.WCSApiResponse;
import com.baoshi.wcs.common.utils.Xml2BeanUtil;
import com.baoshi.wcs.common.wms.Order;
import com.baoshi.wcs.common.wms.WMSServiceResponse;
import com.baoshi.wcs.entity.GoodsWeight;
import com.baoshi.wcs.common.response.ApiResponse;
import com.baoshi.wcs.service.GoodsWeightService;
import com.baoshi.wcs.vo.GoodsWeightVO;
import com.baoshi.wcs.web.basic.BaseController;
import org.apache.cxf.endpoint.Client;
import org.apache.cxf.jaxws.endpoint.dynamic.JaxWsDynamicClientFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.http.HttpStatus;
import org.springframework.stereotype.Controller;
import org.springframework.util.StringUtils;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.Request Mapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.ResponseBody;
import java.util.List;
import java.util.concurrent.*;
@Controller
@Request Mapping("/robot")
public class RobotController extends BaseController {
  @Autowired
```

private GoodsWeightService;

```
@Value("${com.wcs.wms.url}")
  private String wmsServiceUrl;
  @Value("${com.wcs.wms.cid}")
  private String wmsServiceCid;
  @Value("${com.wcs.wms.pwd}")
  private String wmsServicePwd;
  @Value("${com.wcs.wms.warehouseid}")
  private String wmsServiceWarehouseld;
  @Value("${com.wcs.wms.unit}")
  private String wmsServiceUnit;
  private static final String goodsWeightKey =
"2C7FACD3AFC3FFE547FC54CDA076A25D":
  private static ExecutorService executor = new ThreadPoolExecutor(1, 1,
        OL, TimeUnit. MILLISECONDS.
        new LinkedBlockingQueue<Runnable>());
  /**
   * @param goodsWeightVO
   * @return
  @Request Mapping(value = "/goods/weight", method = Request Method. POST)
  @ResponseBody
  public Object weigt(@RequestBody GoodsWeight VO goodsWeight VO) throws
InterruptedException, ExecutionException, TimeoutException {
     WCSApiResponse<Boolean> apiResponse = new WCSApiResponse<>();
     if(StringUtils.isEmpty(goodsWeightVO)){
        apiResponse.setCode(HttpStatus.INTERNAL_SERVER_ERROR.value());
        apiResponse.setServerMsg("数据不能为空");
        retum apiResponse;
     }
     if(StringUtils.isEmpty(goodsWeightVO.getKey())){
        apiResponse.setCode(HttpStatus.INTERNAL_SERVER_ERROR.value());
        apiResponse.setServerMsg("key不能为空");
        return apiResponse;
     }
     if(! goodsWeightKey.equals(goodsWeight VO.get Key())){
        apiResponse.setCode(HttpStatus.INTERNAL_SERVER_ERROR.value());
        apiResponse.setServerMsg("错误的key值");
        return apiResponse;
     }
     String barCode = goodsWeightVO.getBarCode();
     if(StringUtils.isEmpty(barCode)){
```

```
apiResponse.setCode(HttpStatus.INTERNAL_SERVER_ERROR.value());
       apiResponse.setServerMsg("barcode 不能为空");
       return apiResponse;
     Double weight = goodsWeight VO.get Weight ();
     if(null == weight){
       apiResponse.setCode(HttpStatus.INTERNAL_SERVER_ERROR.value());
       apiResponse.setServerMsg("weight 不能为空");
       return apiResponse;
     }
     WMSServiceResponse<List<Order>> wmsServiceResponse =
checkBarcode2Wms(barCode);
     logger.info("wms 快递单 验证 结果: {}", JSON.toJSONString(wmsServiceResponse));
     String rc = wmsServiceResponse.getRc();
     if(!"0000".equals(rc)){
       apiResponse.setCode(HttpStatus.INTERNAL_SERVER_ERROR.value());
       apiResponse.setServerMsg("验证barcode失败 wms 状态码: "+rc+" msg: "+
wmsServiceResponse.getRm());
       logger.error("快递单号验证失败:{}}",JSON.toJSONString(wmsServiceResponse));
       return apiResponse;
     }
     GoodsWeight goodsWeight = new GoodsWeight();
     goodsWeight.setBarCode(barCode);
     goodsWeight.setWeight(goodsWeight VO.getWeight());
     boolean saveRes = goodsWeightService.save(goodsWeight);
     Callable<String> goodsWeight2WMS = new Callable<String>() {
       @Override
       public String call() throws Exception {
          JaxWsDynamicClientFactory dcf = JaxWsDynamicClientFactory.newInstance();
            String wsUrl = "http://test3.kucangbao.com/kcb-1.0/cxf/warehouse?wsdl";
          String wsUrl = wmsServiceUrl;
          Client client = dcf.createClient(wsUrl);
          String method = "setOrderWeight";//webservice的方法名
          Object[] result = null;
          String regXml = "<?xml version=\"1.0\" encoding=\"UTF-8\" ?>\n" +
               "<setOrderWeight>\n" +
               "<tid>20140318155513001</tid>\n" +
                "<cid>" + wmsServiceCid + "</cid>\n" +
                "<pwd>"+wmsServicePwd+"</pwd>\n" +
               "<warehouseid>"+wmsServiceWarehouseld+"</warehouseid>\n" +
               "<sendcode>"+barCode+"</sendcode>\n" +
                "<weight>"+weight+"</weight>\n" +
                "<unit>"+wmsServiceUnit+"</unit>\n" +
                "</setOrderWeight>";
          Object[] res = null;
          try {
```

```
//调用webservice
             res = client.invoke(method, regXml);
          } catch (Exception e) {
             e.printStackTrace();
             logger.error("保存 wms 扫码称重 异常:{}",e);
          }
          return res[0].toString();
       }
     };
     if(saveRes) {
       Future < String > future = executor.submit(goodsWeight2WMS);
       String res = future.get(5, TimeUnit.SECONDS);
       WMSServiceResponse resp = Xml2BeanUtil.getBaseWMSResp(res);
       logger.info("推送快递单号重量返回: {}",JSON.toJSONString(resp));
       if (resp != null) {
          String goodsweihgtRc = resp.getRc();
          if (!"0000".equals(goodsweingtRc)) {
             apiResponse.setCode(HttpStatus.INTERNAL_SERVER_ERROR.value());
             apiResponse.setServerMsg("保存快递单号 重量失败 wms 状态码:" + rc +
" msg: " + resp.getRm());
             logger.error("快单号-重量推送失败:{}",JSON.toJSONString(resp));
             return apiResponse;
          }
       apiResponse.success(saveRes,"barcode 验证成功,并保存成功,快递单号和重量成
功推送到WMS");
     }
     return apiResponse;
  }
  private WMSServiceResponse<List<Order>> checkBarcode2Wms(String barcode){
     JaxWsDynamicClientFactory dcf = JaxWsDynamicClientFactory.newInstance();
       String wsUrl = "http://demo.kucangbao.com/kcb-1.0/cxf/warehouse?wsdl";
//
       String wsUrl = "http://test3.kucangbao.com/kcb-1.0/cxf/warehouse?wsdl";
     String wsUrl = wmsServiceUrl;
     Client client = dcf.createClient(wsUrl);
     String method = "getOrders";//webservice的方法名
     Object[] result = null;
     String reqXml = "<?xml version=\"1.0\" encoding=\"UTF-8\"?>" +
          "<getOrders>\n" +
          "<tid>20140318155513001</tid>\n" +
          "<cid>"+wmsServiceCid+"</cid>\n" +
          "<pwd>"+wmsServicePwd+"</pwd>\n" +
          "<warehouseid>"+wmsServiceWarehouseld+"</warehouseid>\n" +
          "<sendcode>"+barcode+"</sendcode>\n" +
```

```
"</getOrders>";
     WMSServiceResponse<List<Order>> orderDetails = null;
     try {
        result = client.invoke(method, regXml);//调用webservice
        orderDetails = Xml2BeanUtil.getOrderDetails(result[0].toString());
        return orderDetails;
     } catch (Exception e) {
        e.printStackTrace();
     return orderDetails;
  }
业务层(通用)
// Source code recreated from a .class file by IntelliJ IDEA
// (powered by Fernflower decompiler)
package com.baomidou.mybat isplus.ext ension.service;
import com.baomidou.mybat isplus.core.condit ions.Wrapper;
import com.baomidou.mybatisplus.core.metadata.lPage;
import java.io.Serializable;
import java.util.Collection;
import java.util.List;
import java.util.Map;
public interface | Service < T > {
  boolean save(T var1);
  default boolean saveBatch(Collection<T> entityList) {
     return this.saveBatch(entityList, 30);
  }
  boolean saveBatch(Collection<T > var1, int var2);
  boolean saveOrUpdateBatch(Collection<T > var1);
  boolean saveOrUpdateBatch(Collection<T> var1, int var2);
  boolean removeByld(Serializable var1);
  boolean removeByMap(Map<String, Object> var1);
  boolean remove(Wrapper<T> var1);
```

```
boolean removeBylds(Collection<? extends Serializable> var1);
  boolean updateByld(T var1);
  boolean update(T var1, Wrapper<T> var2);
  default boolean updateBatchByld(Collection<T> entityList) {
     return this.updateBatchByld(entityList, 30);
  }
  boolean updateBatchByld(Collection<T > var1, int var2);
  boolean saveOrUpdate(T var1);
  T getByld(Serializable var1);
  Collection<T > listBylds(Collection<? extends Serializable> var1);
  Collection<T> listByMap(Map<String, Object> var1);
  default T getOne(Wrapper<T> queryWrapper) {
     return this.getOne(queryWrapper, false);
  }
  T getOne(Wrapper<T> var1, boolean var2);
  Map<String, Object> getMap(Wrapper<T> var1);
  Object getObj(Wrapper<T> var1);
  int count(Wrapper<T> var1);
  List<T> list(Wrapper<T> var1);
  IPage<T> page(IPage<T> var1, Wrapper<T> var2);
  List<Map<String, Object>> listMaps(Wrapper<T> var1);
  List<Object> listObjs(Wrapper<T> var1);
  IPage<Map<String, Object>> pageMaps(IPage<T> var1, Wrapper<T> var2);
业务层(实现)
// Source code recreated from a .class file by IntelliJ IDEA
// (powered by Fernflower decompiler)
```

```
package com.baomidou.mybatisplus.extension.service.impl;
import com.baomidou.mybatisplus.core.conditions.Wrapper;
import com.baomidou.mybatisplus.core.enums.SqlMethod;
import com.baomidou.mybatisplus.core.mapper.BaseMapper;
import com.baomidou.mybatisplus.core.metadata.lPage;
import com.baomidou.mybatisplus.core.metadata.TableInfo;
import com.baomidou.mybatisplus.core.toolkit.CollectionUtils;
import com.baomidou.mybatisplus.core.toolkit.ExceptionUtils;
import com.baomidou.mybatisplus.core.toolkit.GlobalConfigUtils;
import com.baomidou.mybatisplus.core.toolkit.ObjectUtils;
import com.baomidou.mybatisplus.core.toolkit.ReflectionKit;
import com.baomidou.mybatisplus.core.toolkit.StringUtils;
import com.baomidou.mybatisplus.core.toolkit.TableInfoHelper;
import com.baomidou.mybatisplus.core.toolkit.sql.SqlHelper;
import com.baomidou.mybatisplus.extension.service.lService;
import java.io.Serializable;
import java.util.Collection;
import java.util.lterator;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.function.Predicate;
import java.util.stream.Collectors;
import org.apache.ibatis.binding.MapperMethod.ParamMap;
import org.apache.ibatis.session.SqlSession;
import org.mybatis.spring.SqlSessionUtils;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.transaction.annotation.Transactional;
public class ServiceImpl<M extends BaseMapper<T>, T > implements IService<T> {
   @Autowired
  protected M baseMapper;
  public ServiceImpl() {
  }
  protected boolean retBool(Integer result) {
     return SqlHelper.retBool(result);
  }
  protected Class<T> current ModelClass() {
     return ReflectionKit.getSuperClassGenericType(this.getClass(), 1);
  }
  protected SqlSession sqlSessionBatch() {
     return SqlHelper.sqlSessionBatch(this.currentModelClass());
```

```
}
  protected void closeSqlSession(SqlSession sqlSession) {
     SqlSessionUtils.closeSqlSession(sqlSession,
GlobalConfigUtils.currentSessionFactory(this.currentModelClass()));
  }
  protected String sqlStatement(SqlMethod sqlMethod) {
     return
SqlHelper.t able(this.current ModelClass()).getSqlSt at ement (sqlMet hod.get Met hod());
  @Transactional(
     rollbackFor = {Exception.class}
  public boolean save(T entity) {
     return this.retBool(this.baseMapper.insert(entity));
  }
  @Transactional(
     rollbackFor = {Exception.class}
  public boolean saveBatch(Collection<T> entityList, int batchSize) {
     int i = 0;
     String sqlStatement = this.sqlStatement(SqlMethod.lNSERT_ONE);
     SqlSession batchSqlSession = this.sqlSessionBatch();
     Throwable var6 = null;
     try {
        for(Iterator var7 = entityList.iterator(); var7.hasNext(); ++i) {
           T anEntityList = var7.next();
           batchSqlSession.insert(sqlStatement, anEntityList);
           if (i >= 1 && i % batchSize == 0) {
              batchSqlSession.flushStatements();
           }
        }
        batchSqlSession.flushStatements();
        return true;
     } catch (Throwable var16) {
        var6 = var16;
        throw var16;
     } finally {
        if (batchSqlSession != null) {
           if (var6 != null) {
              try {
                 batchSqlSession.close();
              } catch (Throwable var15) {
                 var6.addSuppressed(var15);
```

```
}
           } else {
              batchSqlSession.close();
           }
        }
     }
  }
   @Transactional(
     rollbackFor = {Exception.class}
  )
  public boolean saveOrUpdate(T entity) {
     if (null == entity) {
        return false:
     } else {
        Class<?> cls = entity.getClass();
        TableInfo tableInfo = TableInfoHelper.getTableInfo(cls);
        if (null != tableInfo && StringUtils.isNotEmpty(tableInfo.getKeyProperty())) {
           Object idVal = ReflectionKit.getMethodValue(cls, entity,
tableInfo.getKeyProperty());
           if (StringUtils.checkValNull(idVal)) {
              return this.save(entity);
              return this.updateByld(entity) | this.save(entity);
           }
        } else {
           throw ExceptionUtils.mpe("Error: Can not execute. Could not find
@TableId.");
     }
  }
   @Transactional(
     rollbackFor = {Exception.class}
  )
  public boolean saveOrUpdateBatch(Collection<T> entityList) {
     return this.saveOrUpdateBatch(entityList, 30);
   @Transactional(
     rollbackFor = {Exception.class}
  )
   public boolean saveOrUpdateBatch(Collection<T> entityList, int batchSize) {
     if (CollectionUtils.isEmpty(entityList)) {
        throw new IllegalArgumentException("Error: entityList must not be empty");
     } else {
        Class<?> cls = null;
        TableInfo tableInfo = null;
```

```
int i = 0;
        SqlSession batchSqlSession = this.sqlSessionBatch();
        Throwable var7 = null;
        try {
           Iterator var8 = entityList.iterator();
           while(var8.hasNext()) {
              T anEntityList = var8.next();
              if (i == 0) {
                 cls = anEntityList.getClass();
                 tableInfo = TableInfoHelper.getTableInfo(cls);
              }
              if (null == tableInfo | !StringUtils.isNotEmpty(tableInfo.getKeyProperty()))
                 throw ExceptionUtils.mpe("Error: Can not execute. Could not find
@TableId."):
              }
              Object idVal = ReflectionKit.getMethodValue(cls, anEntityList,
tableInfo.getKeyProperty());
              String sqlStatement;
              if (StringUtils.checkValNull(idVal)) {
                 sqlStatement = this.sqlStatement(SqlMethod.lNSERT_ONE);
                 batchSqlSession.insert(sqlStatement, anEntityList);
              } else {
                 sqlStatement = this.sqlStatement(SqlMethod.UPDATE_BY_ID);
                 ParamMap<T> param = new ParamMap();
                 param.put("et", anEntityList);
                 batchSqlSession.update(sqlStatement, param);
              }
              if (i >= 1 && i % batchSize == 0) {
                 batchSqlSession.flushStatements();
              }
              ++i;
              batchSqlSession.flushStatements();
        } catch (Throwable var20) {
           var7 = var20;
           throw var20;
        } finally {
           if (batchSqlSession != null) {
              if (var7 != null) {
                 try {
                    batchSqlSession.close();
                 } catch (Throwable var19) {
```

```
var7.addSuppressed(var19);
           } else {
              batchSqlSession.close();
        }
     }
      return true:
  }
}
@Transactional(
   rollbackFor = {Exception.class}
public boolean removeByld(Serializable id) {
   return SqlHelper.delBool(this.baseMapper.deleteByld(id));
}
@Transactional(
   rollbackFor = {Exception.class}
)
public boolean removeByMap(Map<String, Object> columnMap) {
   if (ObjectUtils.isEmpty(columnMap)) {
      throw ExceptionUtils.mpe("removeByMap columnMap is empty.");
   } else {
      return SqlHelper.delBool(this.baseMapper.deleteByMap(columnMap));
  }
}
@Transactional(
   rollbackFor = {Exception.class}
public boolean remove(Wrapper<T> wrapper) {
   return SqlHelper.delBool(this.baseMapper.delete(wrapper));
}
@Transactional(
   rollbackFor = {Exception.class}
)
public boolean removeBylds(Collection<? extends Serializable> idList) {
   return SqlHelper.delBool(this.baseMapper.deleteBatchlds(idList));
}
@Transactional(
   rollbackFor = {Exception.class}
public boolean updateByld(T entity) {
```

```
return this.retBool(this.baseMapper.updateByld(entity));
}
@Transactional(
  rollbackFor = {Exception.class}
public boolean update(T entity, Wrapper<T> updateWrapper) {
  return this.retBool(this.baseMapper.update(entity, updateWrapper));
}
@Transactional(
  rollbackFor = {Exception.class}
)
public boolean updateBatchByld(Collection<T> entityList, int batchSize) {
  if (CollectionUtils.isEmpty(entityList)) {
     throw new IllegalArgumentException("Error: entityList must not be empty");
  } else {
     int i = 0;
     String sqlStatement = this.sqlStatement(SqlMethod.UPDATE_BY_ID);
     SqlSession batchSqlSession = this.sqlSessionBatch();
     Throwable var6 = null:
     try {
        for(Iterator var7 = entityList.iterator(); var7.hasNext(); ++i) {
           T anEntityList = var7.next();
           ParamMap<T> param = new ParamMap();
           param.put("et", anEntityList);
           batchSqlSession.update(sqlStatement, param);
           if (i >= 1 && i % batchSize == 0) {
              batchSqlSession.flushStatements();
           }
        }
        batchSqlSession.flushStatements();
        return true;
     } catch (Throwable var17) {
        var6 = var17;
        throw var17;
     } finally {
        if (batchSqlSession != null) {
           if (var6 != null) {
              try {
                 batchSqlSession.close();
              } catch (Throwable var16) {
                 var6.addSuppressed(var16);
              }
           } else {
              batchSqlSession.close();
           }
```

```
}
  }
  public T getByld(Serializable id) {
     return this.baseMapper.selectByld(id);
  }
  public Collection<T> listBylds(Collection<? extends Serializable> idList) {
     return this.baseMapper.selectBatchlds(idList);
  }
  public Collection<T> listByMap(Map<String, Object> columnMap) {
     return this.baseMapper.selectByMap(columnMap);
  }
  public T getOne(Wrapper<T> queryWrapper, boolean throwEx) {
     return throwEx? this.baseMapper.selectOne(queryWrapper):
SqlHelper.getObject(this.baseMapper.selectList(queryWrapper));
  public Map<String, Object> getMap(Wrapper<T> queryWrapper) {
     return (Map)SqlHelper.get Object (this.baseMapper.select Maps(queryWrapper));
  }
  public Object getObj(Wrapper<T> queryWrapper) {
     return SqlHelper.getObject(this.baseMapper.selectObjs(queryWrapper));
  }
  public int count(Wrapper<T> queryWrapper) {
     return SqlHelper.retCount(this.baseMapper.selectCount(queryWrapper));
  }
  public List<T> list(Wrapper<T> queryWrapper) {
     return this.baseMapper.selectList(queryWrapper);
  }
  public IPage<T> page(IPage<T> page, Wrapper<T> queryWrapper) {
     return this.baseMapper.selectPage(page, queryWrapper);
  }
  public List<Map<String, Object>> listMaps(Wrapper<T> queryWrapper) {
     return this.baseMapper.selectMaps(queryWrapper);
  }
  public List<Object> listObjs(Wrapper<T> queryWrapper) {
```

```
return
(List) this.baseMapper.selectObjs(queryWrapper).stream().filter(Objects::nonNull).collect(C
ollectors.toList());
  }
  public IPage<Map<String, Object>> pageMaps(IPage<T> page, Wrapper<T>
     return this.baseMapper.selectMapsPage(page, queryWrapper);
持久层(接口)
package com.baoshi.wcs.dao;
import com.baomidou.mybatisplus.core.mapper.BaseMapper;
import com.baoshi.wcs.entity.GoodsWeight;
/**
* 
* 货物/包裹信息表 Mapper 接口
* 
* @author jobob
* @since 2018-11-11
public interface GoodsWeightMapper extends BaseMapper<GoodsWeight> {
持久层(实现)
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"</p>
"http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="com.baoshi.wcs.dao.GoodsWeight Mapper">
  <!-- 通用查询映射结果 -->
  <resultMap id="BaseResultMap" type="com.baoshi.wcs.entity.GoodsWeight">
  <result column="id" property="id" />
  <result column="create_time" property="createTime" />
  <result column="update_time" property="updateTime" />
  <result column="creator" property="creator" />
  <result column="version" property="version" />
     <result column="bar_code" property="barCode" />
     <result column="weight" property="weight" />
     <result column="modifier" property="modifier" />
```

</result Map>

```
<!-- 通用查询结果列 -->
<sql id="Base_Column_List">
id,
    create_time,
    update_time,
    creator,
    version,
    bar_code, weight, modifier
</sql>
```

</mapper>