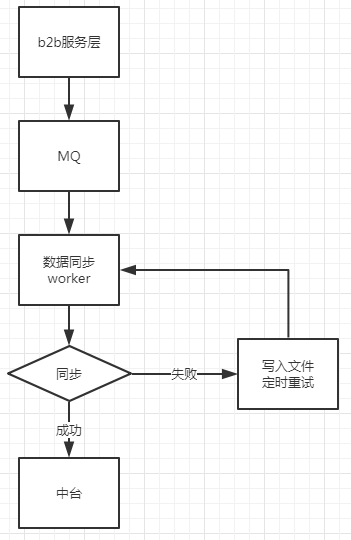
**B2B与中台对接详细设计---通用部分**

# 背景

B2B的商品数据要同步到中台数据库

# 基本流程

1. 在b2b服务层的写入更新出埋点，收集数据（json格式）
2. 收集完数据后，发送到MQ，不同类型的数据对应不同Topic
3. 数据同步worker负责消费MQ的Topic数据
4. 数据同步成功则本次任务结束；数据同步失败，写入日志文件，定时重试



# B2B服务层详细设计

以商品举例

在代码中，找出关于商品信息的新增、修改点（类名 方法名）

XxxService.create(Product product)

XxxService.modify(Product product)

.

.

.

收集数据，发送MQ

伪代码如下

public void insert(Product product){

**// 业务处理**

........

ProductVO po = new ProductVO(........); //收集的数据

Stirng json = po.toJson(); //转json

Mq.send(‘topicProduct’, productId, json); //发送mq

}

### 2.1 商品update

webapp-admin

* com.forlink.etrademgr.common.gxs.find\_factory\_info.service.FindFactoryInfoService.cancel
* com.forlink.etrademgr.common.gxs.gsell\_mgr.service.GSellMgrService.cancel
* com.forlink.etrademgr.common.gxs.inquery\_mgr.service.InqueryMgrService.submitCheck
* com.forlink.etrademgr.common.gxs.inquery\_mgr.service.InqueryMgrService.recommend
* com.forlink.etrademgr.common.gxs.quote\_mgr.service.QuoteMgrService.submitCheck
* com.forlink.etrademgr.common.gxs.manage\_goods.service.ManagerGoodsService.addWeightLeft
* com.forlink.etrademgr.common.gxs.select\_goods.service.SelectGoodsService.addActivityGoods
* com.forlink.etrademgr.common.gxs.manage\_goods.service.ManagerGoodsService.gxsSpecActivityGoodsBeanCancel
* com.forlink.etrademgr.common.gxs.spec\_activity\_goods\_check.service.SpecActivityGoodsCheckService.submitCheck
* com.forlink.etrademgr.common.gxs.spec\_activity\_goods\_check.service.SpecActivityGoodsCheckService.updateGoods
* com.forlink.etrademgr.common.gxs.spec\_activity\_goods\_sp\_quit.service.SpecActivityGoodsSPQuitService.submitCheck
* com.forlink.etrademgr.common.trade.gpai.service.OrderSOrganMgrService.updateByPrimaryKeySelective
* com.forlink.etrademgr.common.gxs.auction.service.AuctionOfferExamAndMngService.approve
* com.forlink.etrademgr.common.gxs.auction.service.AuctionOfferExamAndMngService.reject
* com.forlink.etrademgr.common.gxs.auction.service.InviteBidsOfferExamAndMngService.approve
* com.forlink.etrademgr.common.gxs.auction.service.InviteBidsOfferExamAndMngService.reject
* com.forlink.etrademgr.common.gxs.gpurchase\_mgr.service.GPurchaseMgrService.cancel
* com.forlink.etrademgr.common.gxs.spec\_activity\_mgr.service.SpecActivityService.forceEndActivityGoods
* com.forlink.etrademgr.common.searchmode.purchasemanage.service.PurchaseManageService.changePublishStatus
* com.forlink.etrademgr.common.searchmode.purchasemanage.service.PurchaseManageService.updateOrderSInfo
* com.forlink.etrademgr.common.trade.auction.service.AuctionOfferExamAndMngService.approve
* com.forlink.etrademgr.common.trade.auction.service.AuctionOfferExamAndMngService.reject
* com.forlink.etrademgr.common.trade.auction.service.InviteBidsOfferExamAndMngService.approve
* com.forlink.etrademgr.common.trade.auction.service.InviteBidsOfferExamAndMngService.reject
* com.forlink.etrademgr.common.trade.gpurchase.service.ApplyAuditService.doApplyAudit

webapp-etrade

* com.forlink.etrade.common.gxs.exchange.service.ExCollectionService.addCollectGoods
* com.forlink.etrade.common.gxs.exchange.service.ExCollectionService.updataCollectGoods
* com.forlink.etrade.common.gxs.inquiry.buyerquotedetail.service.QuoteDetailService.updateQuoteReadTimesById
* com.forlink.etrade.common.gxs.inquiry.quotationmanagement.service.QuotationManagementService.updatedate15
* com.forlink.etrade.common.gxs.selectgoods.after.service.FinishService.addActivityGoods
* com.forlink.etrade.common.gxs.trade.auction.service.hall.AuctionHallService.auctionDoWatch
* com.forlink.etrade.common.trade.auction.service.hall.AuctionHallService.auctionDoWatch
* com.forlink.etrade.common.gxs.activity.service.SellerActivityMgrService.cancelGood
* com.forlink.etrade.common.gxs.activity.service.SellerActivityMgrService.increaseGoodQtt
* com.forlink.etrade.common.gxs.cluster.polyinvestmentsell.service.PolyInvestmentSellService.paydepositsell
* com.forlink.etrade.common.gxs.cluster.polyinvestmentsell.service.PolyInvestmentSellService.paydepositbuy
* com.forlink.etrade.common.gxs.cluster.polyinvestmentsell.service.PolyInvestmentSellService.cancel
* com.forlink.etrade.common.gxs.cluster.quotation.service.ClusterQuotationMgrService.operOrderS
* com.forlink.etrade.common.gxs.cluster.report.service.ClusterReportService.audit\_cluster\_report
* com.forlink.etrade.common.gxs.cluster.settlement.service.ClusterSettlementService.clusterSettlementDeal
* com.forlink.etrade.common.gxs.exchange.service.ExOrderService.modify
* com.forlink.etrade.common.gxs.exchange.service.ExOrderService.edit
* com.forlink.etrade.common.gxs.inquiry.buyerquotedetail.service.QuoteDetailService.updateQuoteByIdSelective
* com.forlink.etrade.common.gxs.inquiry.buyerquotedetail.service.QuoteDetailService.togglePreChoose
* com.forlink.etrade.common.gxs.inquiry.buyerquotedetail.service.QuoteDetailService.buyerQuoteDelete
* com.forlink.etrade.common.gxs.inquiry.buyerquotedetail.service.QuoteDetailService.buyerQuoteBack
* com.forlink.etrade.common.gxs.inquiry.draftmanage.service.DraftmanageService.mod\_order\_s
* com.forlink.etrade.common.gxs.inquiry.mysupplier.service.MySupplierMgrService.invitateQuotation
* com.forlink.etrade.common.gxs.inquiry.quotationmanagement.service.QuotationManagementService.delete
* com.forlink.etrade.common.gxs.inquiry.quotationmanagement.service.QuotationManagementService.recall
* com.forlink.etrade.common.gxs.inquiry.sheet.service.InquirySheetMgrService.updateOrderS
* com.forlink.etrade.common.gxs.inquiry.sheet.service.InquirySheetMgrService.decryptOrders
* com.forlink.etrade.common.gxs.quote.own.service.OwnService.doRetract
* com.forlink.etrade.common.gxs.quote.own.service.OwnService.doDelete
* com.forlink.etrade.common.gxs.trade.auction.service.apply.AuctionApplyService.delete\_order
* com.forlink.etrade.common.gxs.trade.auction.service.applymanage.AuctionManageService.auctionDelete
* com.forlink.etrade.common.gxs.trade.auction.service.applymanage.AuctionManageService.doAuctionSelectDeal
* com.forlink.etrade.common.gxs.trade.auction.service.biddingmanage.BiddingManageService.doAuctionBiddingPay
* com.forlink.etrade.common.gxs.trade.auction.service.cronservice.AuctionCronService.doAuctionOrder
* com.forlink.etrade.common.gxs.trade.auction.service.deal.AuctionDealService.auctionDeal
* com.forlink.etrade.common.gxs.trade.auction.service.deal.AuctionDealService.auctionDutchDeal
* com.forlink.etrade.common.gxs.trade.auction.service.deal.AuctionDealService.auctionDoBidSMS
* com.forlink.etrade.common.gxs.trade.auction.service.deal.AuctionDealService.auctionDoStart
* com.forlink.etrade.common.gxs.trade.auction.service.deal.AuctionDealService.auctionDoJJOrderPriceChange
* com.forlink.etrade.common.gxs.trade.auction.service.deal.AuctionDealService.auctionDoFinish
* com.forlink.etrade.common.gxs.trade.auction.service.hall.AuctionHallService.doAuctionEnroll
* com.forlink.etrade.common.gxs.trade.auction.service.hall.AuctionHallService.doAuctionBuy
* com.forlink.etrade.common.gxs.trade.auction.service.hall.AuctionHallService.callRecepitUpdate
* com.forlink.etrade.common.gxs.trade.auction.service.invitebidsdeal.InviteBidsDealService.inviteBidsDoStart
* com.forlink.etrade.common.gxs.trade.auction.service.invitebidsdeal.InviteBidsDealService.inviteBidsDoFinish
* com.forlink.etrade.common.gxs.trade.auction.service.invitebidsdeal.InviteBidsDealService.updateOrderAtt56
* com.forlink.etrade.common.gxs.trade.auction.service.tenderandmng.TenderService.orderP
* com.forlink.etrade.common.gxs.trade.competeprice.service.CompetePriceService.create
* com.forlink.etrade.common.gxs.trade.competeprice.service.CompetePriceService.addOrderSView
* com.forlink.etrade.common.gxs.trade.competeprice.service.CompetePriceService.createBidLow
* com.forlink.etrade.common.gxs.trade.goodscollection.service.GoodsCollectionService.add\_collection
* com.forlink.etrade.common.gxs.trade.goodscollection.service.GoodsCollectionService.do\_collect
* com.forlink.etrade.common.gxs.trade.goodslistmanage.service.GoodsListManageService.save
* com.forlink.etrade.common.gxs.trade.gpurchase.cronimpl.service.CollectiveProcurementDealService.doCollectiveProcurementDeal
* com.forlink.etrade.common.gxs.trade.gpurchase.gpordermanage.service.GPOrderManageService.examineOrder
* com.forlink.etrade.common.gxs.trade.gpurchase.purchasingmanagesell.service.PurchasingManageSellService.paydepositsell
* com.forlink.etrade.common.gxs.trade.gpurchase.purchasingmanagesell.service.PurchasingManageSellService.paydepositbuy
* com.forlink.etrade.common.gxs.trade.gpurchase.purchasingmanagesell.service.PurchasingManageSellService.cancel
* com.forlink.etrade.common.gxs.trade.gpurchase.purchasingmanagesell.service.PurchasingManageSellService.deal
* com.forlink.etrade.common.gxs.trade.gpurchase.purchasingmanagesell.service.PurchasingManageSellService.group\_deal
* com.forlink.etrade.common.gxs.trade.inventorywarning.service.InventoryWarningService.save
* com.forlink.etrade.common.trade.auction.service.apply.AuctionApplyService.delete\_order
* com.forlink.etrade.common.trade.auction.service.applymanage.AuctionManageService.auctionDelete
* com.forlink.etrade.common.trade.auction.service.applymanage.AuctionManageService.doAuctionSelectDeal
* com.forlink.etrade.common.trade.auction.service.biddingmanage.BiddingManageService.doAuctionBiddingPay
* com.forlink.etrade.common.trade.auction.service.cronservice.AuctionCronService.doAuctionOrder
* com.forlink.etrade.common.trade.auction.service.deal.AuctionDealService.auctionDeal
* com.forlink.etrade.common.trade.auction.service.deal.AuctionDealService.auctionDutchDeal
* com.forlink.etrade.common.trade.auction.service.deal.AuctionDealService.selectDealFinish
* com.forlink.etrade.common.trade.auction.service.deal.AuctionDealService.auctionDoFinish
* com.forlink.etrade.common.trade.auction.service.hall.AuctionHallService.doAuctionEnroll
* com.forlink.etrade.common.trade.auction.service.hall.AuctionHallService.doAuctionBuy
* com.forlink.etrade.common.trade.auction.service.hall.AuctionHallService.callRecepitUpdate
* com.forlink.etrade.common.trade.auction.service.invitebidsdeal.InviteBidsDealService.inviteBidsDoStart
* com.forlink.etrade.common.trade.auction.service.invitebidsdeal.InviteBidsDealService.inviteBidsDoFinish
* com.forlink.etrade.common.trade.auction.service.tenderandmng.TenderService.orderP
* com.forlink.etrade.common.trade.gpurchase.service.buyer.GenerateContractService.doUpToStandard
* com.forlink.etrade.common.trade.gpurchase.service.buyer.ShowHallService.doSignUp
* com.forlink.etrade.common.trade.listing.service.listingmanage.AddListingService.doAddOrder
* com.forlink.etrade.common.trade.listing.service.ordermanage.AddOrderService.depositPay

etrade-core

* com.forlink.etrade.service.gxs.exchange.ExOrderCoreService.orderEdit
* com.forlink.etrade.service.search.SearchCoreService.initOrderSbean
* com.forlink.etrade.service.search.SearchCoreService.getResponsePOIExcel

webapp-gxsapp

* com.forlink.gxsapp.service.goodsdetail.GxsAppGoodsDetailService.do\_collect
* com.forlink.gxsapp.service.goodsmgrsell.GoodsManagerService.save

### 2.2商品insert

webapp-etrade

* com.forlink.etrade.common.gxs.exchange.service.ExOrderService.addOrder
* com.forlink.etrade.common.gxs.trade.competeprice.service.CompetePriceService.create
* com.forlink.etrade.common.gxs.trade.competeprice.service.CompetePriceService.createBidLow

# MQ选择

rocketMQ ---- 公司目前用的

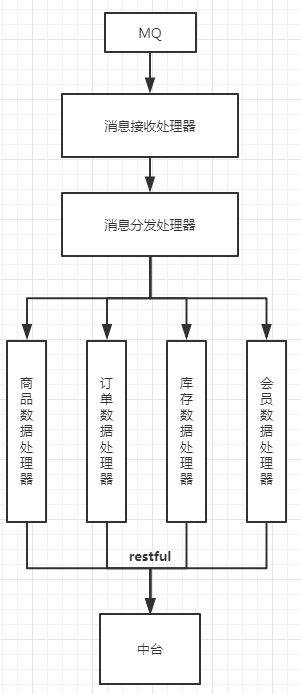
# 数据同步worker

## 4.1数据同步worker的主要功能

数据同步worker的主要功能是消费MQ消息

其工作流程图如下图

1. 从mq接收消息，如需要可进行转换等操作
2. 根据消息类型分发到不同的数据处理器
3. 数据处理器调用中台对应的API做数据同步



## 4.2数据同步worker的异常业务流

数据同步异常时，记录异常时的上下文数据，包括但不限于时间，业务数据、线程号、IP等

异常数据可记录本地日志文件，由定时任务进行补偿

也可记录到数据库，用分布式任务调度系统进行补偿

**注意：数据补偿时，要对比数据的更新时间，避免旧数据覆盖新数据**

## 4.3 数据同步worker的高可用设计

数据同步worker需要集群部署