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1. ????

1.1 ???

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????	Vue.js	3.x	?? Composition API ????
UI????	Element Plus	????	???? UI????
????	ECharts	5.x	????????
HTTP????	Axios	0.27.2	???????? API??
????	Vuex	4.x	????????
????	Spring Boot	2.5.x	?? RESTful API??
????	MyBatis Plus	3.5.x	????????
??	MySQL	5.7+	????????
API??	Amazon Advertising API	??	????????

1.2 ????

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 - ???? Vue????????
 - ???? Vue?? API????
 - API???? API????
- ?? ?
 - ???? Spring MVC???? HTTP??
 - ????????
 - ???? MyBatis Plus Mapper????
 - ?? API?? Amazon Advertising API????

3. 消息 交互

- 消息交互
- 消息交互

1.3 消息交互

sequenceDiagram

participant User as 用户

participant Frontend as 前端

participant API as 接口API

participant Backend as 后端

participant Service as 服务

participant Mapper as 映射器

participant DB as 数据库

participant AmazonAPI as 亚马逊API

User->>Frontend: 请求数据

Frontend->>API: 请求数据

API->>Backend: GET /api/v1/advSummary

Backend->>Service: 调用getenablesumtype()

Service->>Mapper: 调用getenablesumtype()

Mapper->>DB: SELECT * FROM ad_campaigns WHERE status='enabled'

DB-->>Mapper: 返回数据

Mapper-->>Service: 返回数据

Service-->>Backend: 返回数据

Backend-->>API: 200 OK { campaigns: 10, adGroups: 20, ... }

API-->>Frontend: 返回数据

Frontend->>API: 请求数据

API->>Backend: GET /api/v1/advSummary/warning

Backend->>Service: 调用getProductWarningIndicator()

Service->>Mapper: 调用getProductWarningIndicator()

Mapper->>DB: SELECT * FROM ad_warning WHERE type='productads'

DB-->>Mapper: 返回数据

Mapper-->>Service: 返回数据

Service-->>Backend: 返回数据

Backend-->>API: 200 OK { impco: 5, clickco: 3, ... }

API-->>Frontend: 返回数据

```

Frontend->>API: []
API->>Backend: POST /api/v1/advReport/getsumproduct
Backend->>Service: []getSumProduct()
Service->>Mapper: []
Mapper->>DB: SELECT * FROM ad_summary WHERE date BETWEEN ? AND ?
DB-->>Mapper: []
Mapper-->>Service: []
Service-->>Backend: []
Backend-->>API: 200 OK { summary: {...}, chartdata: {...} }
API-->>Frontend: []

```

2. ????

2.1 ????

UI	UI	UI	UI
UI	wimoor-ui/src/views/amazon/advertisement/overview/index.vue	UI	loadWaringData(), loadWaringDataDetail()
UI	wimoor-ui/src/views/amazon/advertisement/overview/components/adStatistics.vue	UI	loadSummaryChartData(), loadMonthSummaryData(), refreshChart()
UI	wimoor-ui/src/views/amazon/advertisement/overview/components/adFunnel.vue	UI	-
ROAS UI	wimoor-ui/src/views/amazon/advertisement/overview/components/roasRank.vue	UI	-
UI	wimoor-ui/src/views/amazon/advertisement/overview/components/indicator_detail.vue	UI	-
UI	wimoor-ui/src/views/amazon/advertisement/overview/components/indicator.vue	UI	-

2.2 ???????

2.2.1 ???????


```

    })
}

// 加载月总结数据
function loadMonthSummaryData() {
    summaryApi.getmonthsum(state.queryParams).then(res=>{
        state.monthData=res.data;
        if(state.queryParams.currency=="USD"){
            state.rows.forEach(item=>{
                if(item.prefix==''){
                    item.prefix='$';
                }
            })
        }else{
            state.rows.forEach(item=>{
                if(item.prefix=='$'){
                    item.prefix='';
                }
            })
        }
    });
}

// 刷新图表
function refreshChart() {
    var chartdata=state.chartData;
    if (chartdata != null) {
        var labels = null;
        var color = [];
        var legends = [];
        var series = [];
        state.adList.forEach(row=>{
            var type = row.field;
            if (row.active&&chartdata[type]) {
                labels = chartdata[type]["listLabel"];
                legends.push(row.name);
                color.push(row.color);
                var datas = {};
                datas.name = row.name;
                if (type == "cr" || type == "ctr" || type == "acos") {

```

```

        datas.type = "line";
        datas.yAxisIndex = 1;
        datas.symbol = 'emptycircle';
        datas.smooth = true;
        datas.symbolSize = 3;
        datas.itemStyle = {
            normal : {
               LineStyle : {
                    width : 2
                }
            }
        }
    } else {
        datas.type = "bar";
        datas.barGap = "0%";
        datas.boundaryGap = "0%";
        datas.barMaxWidth = 32, datas.itemStyle = {
            normal : {
                barBorderRadius : [ 4, 4, 0, 0 ]
            }
        }
    }
    datas.data = chartdata[type].listData;
    series.push(datas);
}
});
if (labels != null) {
    lineChart(legends, labels, series, color);
} else {
    document.getElementById("mychart").innerHTML="<div style='padding-top:10%'
clas='font-extraSmall'>□□□□</div>";
}
} else {
    document.getElementById("mychart").innerHTML="<div style='padding-top:10%' clas='font-
extraSmall'>□□□□</div>";
}
}
}

```

2.2.4 ?????

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- [] ECharts []
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2.2.5 ROAS??

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- [] API [] ROAS []
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2.3 API??

API []	[]	URL	[]	[]	[]
getenablesumtype	GET	/api/v1/advSummary	[] []	[]	{ campaigns: 10, adGroups: 20, ads: 30, targets: 40 }
getProductWarningIndicator	GET	/api/v1/advSummary/warning	[] []	ftype: "co"/"sequent"/"yesterday"	{ impco: 5, clickco: 3, crco: 2, acosco: 4 }
getKeywordsWarningIndicator	GET	/api/v1/advSummary/warning	[] []	ftype: "co"/"sequent"/"yesterday"	{ impco: 2, clickco: 1, crco: 0, acosco: 3 }
getsumproduct	POST	/api/v1/advReport/getsumproduct	[] []	begin: "2023-01-01", end: "2023-01-31", groupid: "1", profileid: "2", currency: "USD"	{ summary: {...}, chartdata: {...}, ordersummary: 1000 }
getmonthsum	POST	/api/v1/advReport/getmonthsum	[] []	begin: "2023-01", end: "2023-03", groupid: "1", profileid: "2", currency: "USD"	{ impressions: {...}, clicks: {...}, ... }

3. ????

3.1 ???

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AdvertReportController	wimoor-amazon-adv/amazon-adv- boot/src/main/java/com/wimoor/amazon/adv/controller/AdvertReportController.java	□□□□□	getSumProductAction(), getMonthSumAction()
AdvertManagerController	wimoor-amazon-adv/amazon-adv- boot/src/main/java/com/wimoor/amazon/adv/controller/AdvertManagerController.java	□□□□□	-

3.2 ????

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AmzAdvSumServiceImpl	wimoor-amazon-adv/amazon-adv- boot/src/main/java/com/wimoor/amazon/adv/service/impl/AmzAdvSumServiceImpl.java	□□□□□□□	-
AmzAdvSumProductAdsService	wimoor-amazon-adv/amazon-adv- boot/src/main/java/com/wimoor/amazon/adv/report/service/IAmzAdvSumProductAdsService.java	□□□□□□□□	getSumProduct(), getMonthSumProduct(), getDaysSumProduct()
AmazonReportAdvSummaryService	wimoor-amazon-adv/amazon-adv- boot/src/main/java/com/wimoor/amazon/adv/common/service/IAmazonReportAdvSummaryService.java	□□□□□□□	findAdvert()

3.3 ?????

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AmzAdvSumProductAds	□□□□□	□□□□□□□	campaignId, adGroupId, adId, impressions, clicks, cost, attributedSales, attributedUnitsOrdered
AmzAdvWarning	□□□□□	□□□□□□□	type, subtype, indicator, value, threshold, status
AmazonReportAdvSummary	□□□□□	□□□□□□□	date, profileId, campaignId, adGroupId, adId, impressions, clicks, cost, sales

3.4 ?????

Mapper	接口	实现类	方法
AmzAdvSumProductAdsMapper	AmzAdvSumProductAdsService	AmzAdvSumProductAdsServiceImpl	selectSumProduct(), selectMonthSumProduct(), selectDaysSumProduct()
AmzAdvWarningMapper	AmzAdvWarningService	AmzAdvWarningServiceImpl	selectWarningIndicator()
AmazonReportAdvSummaryMapper	AmazonReportAdvSummaryService	AmazonReportAdvSummaryServiceImpl	selectAdvert()

3.5 API

3.5.1 API

接口

- AmzAdvSumProductAdsService
- AmzAdvSumProductAdsService.getSumProduct() ID
- AmzAdvSumProductAdsService.orderSummaryAll()
- AmzAdvSumProductAdsService.getDaysSumProduct()
- AmzAdvWarningService

实现类

```

@PostMapping("/getsumproduct")
public Result<Map<String, Object>> getSumProductAction(@RequestBody QueryForSumProductDTO
dto){
    String begin =dto.getBegin();
    String end = dto.getEnd();
    String type = dto.getType();
    String groupid = dto.getGroupid();
    String profileid = dto.getProfileid();
    String currency = dto.getCurrency();
    UserInfo user = UserInfoContext.get();
    Map<String,Object> param=new HashMap<String,Object>();
    param.put("shopid", user.getCompanyid());
    param.put("type", type);
    param.put("currency", currency);
    Map<String, Marketplace> allmarket = marketplaceService.findMapByMarketplaceId();
    if(StringUtil.isNotEmpty(profileid) && !"all".equals(profileid)) {
        if(StringUtil.isNotEmpty(groupid) && !"all".equals(groupid)) {
            AmzAdvProfile profile = amzAdvAuthService.getAmzAdvProfileByKey(new
BigInteger(profileid));

```

```

        if(allmarket.get(profile.getMarketplaceid())!=null){
            param.put("pmarketplaceId",
allmarket.get(profile.getMarketplaceid()).getPointName());
        }
        param.put("sellerid", profile.getSellerid());
        param.put("profileid", profileid);
        param.put("groupid", groupid);
    }else {
        param.put("marketplaceId", profileid);
        param.put("pmarketplaceId", allmarket.get(profileid).getPointName());
    }
}else {
    if(StringUtil.isNotEmpty(groupid) && !"all".equals(groupid)) {
        List<Map<String, Object>> list = amzAdvAuthService.getSelleridBygroup(groupid);
        List<String> sellerList = new ArrayList<String>();
        for(Map<String,Object> map : list) {
            String seller = (String) map.get("sellerId");
            sellerList.add(seller);
        }
        param.put("sellerList", sellerList);
        param.put("groupid", groupid);
    }
}
if(StringUtil.isNotEmpty(begin)) {
    param.put("begin", begin.replaceAll("/", "-").trim());
    param.put("beginDate", begin.replaceAll("/", "-").trim());
}
if(StringUtil.isNotEmpty(end)) {
    param.put("end",end.replaceAll("/", "-").trim());
    param.put("endDate", end.replaceAll("/", "-").trim());
}
Map<String, Object> result =new HashMap<String,Object>();
Map<String, Object> map = amzAdvSumProductAdsService.getSumProduct(param);
BigDecimal mapordersum = amzAdvSumProductAdsService.orderSummaryAll(param);
Map<String, Object> chartdata = amzAdvSumProductAdsService.getDaysSumProduct(param);
result.put("summary", map);
result.put("ordersummary", mapordersum);
result.put("chartdata", chartdata);
return Result.success(result) ;
}

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4.2 ???????

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4.3 ???????

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- 使用 HTTP 和 Excel

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4.5 ROAS????

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6.2 ?????

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7. ??????

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8. ???????

8.1 ?????

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1. 组件 生命周期
2. 组件 生命周期 Vuex 生命周期 props
3. 组件 生命周期
 - 生命周期钩子
 - 生命周期钩子
 - 生命周期钩子
4. 组件 生命周期
 - 生命周期钩子 ESLint 生命周期钩子
 - 生命周期钩子
 - 生命周期钩子 Vue 生命周期钩子 computed 生命周期钩子

组件 生命周期

```

// 生命周期钩子
function handleQuery() {
  if(state.activeName=="chart"){
    loadSummaryChartData();
  }else{
    loadMonthSummaryData() ;
  }
}

// 生命周期钩子
import { debounce } from 'lodash-es';

const handleQuery = debounce(() => {
  if(state.activeName=="chart"){
    loadSummaryChartData();
  }else{
    loadMonthSummaryData() ;
  }
}, 300);

```

8.2 生命周期

组件 生命周期

1. 组件 生命周期
 - 生命周期钩子
 - 生命周期钩子 SQL 生命周期钩子
 - 生命周期钩子
2. 组件 生命周期

- Redis

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- Lambda Stream API

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4.

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```
// 
if(StringUtil.isEmpty(begin)) {
    param.put("begin", begin.replaceAll("/", "-").trim());
    param.put("beginDate", begin.replaceAll("/", "-").trim());
}
if(StringUtil.isEmpty(end)) {
    param.put("end",end.replaceAll("/", "-").trim());
    param.put("endDate", end.replaceAll("/", "-").trim());
}

// 
private void processDateParams(Map<String, Object> param, String begin, String end) {
    if(StringUtil.isEmpty(begin)) {
        String formattedBegin = begin.replaceAll("/", "-").trim();
        param.put("begin", formattedBegin);
        param.put("beginDate", formattedBegin);
    }
    if(StringUtil.isEmpty(end)) {
        String formattedEnd = end.replaceAll("/", "-").trim();
        param.put("end", formattedEnd);
        param.put("endDate", formattedEnd);
    }
}
}
```

8.3 ???????

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```

// 测试数据
@PostMapping("/getsumproduct")
public Result<Map<String, Object>> getSumProductAction(@RequestBody QueryForSumProductDTO dto)
{
    // 测试数据
    Map<String, Object> map = amzAdvSumProductAdsService.getSumProduct(param);
    BigDecimal mapordersum = amzAdvSumProductAdsService.orderSummaryAll(param);
    Map<String, Object> chartdata = amzAdvSumProductAdsService.getDaysSumProduct(param);
    // ...
}

// 测试数据
@PostMapping("/getsumproduct")
public Result<Map<String, Object>> getSumProductAction(@RequestBody QueryForSumProductDTO dto)
{
    // 测试数据
    Map<String, Object> precomputedData =
amzAdvSumProductAdsService.getPrecomputedSumProduct(param);
    if (precomputedData != null) {
        return Result.success(precomputedData);
    }
    // 测试数据
    Map<String, Object> map = amzAdvSumProductAdsService.getSumProduct(param);
    BigDecimal mapordersum = amzAdvSumProductAdsService.orderSummaryAll(param);
    Map<String, Object> chartdata = amzAdvSumProductAdsService.getDaysSumProduct(param);
    // 测试数据
    amzAdvSumProductAdsService.cacheSumProductResult(param, map, mapordersum, chartdata);
    // ...
}

```

9. ??

9.1 ?????

