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1. ?????

1.1 ?????

Wimoor ERP 100% ERP + +

- SpringBoot 2.6.13 + Spring Cloud 2021.0.5
- Nacos + Seata + Gateway
- Mybatis + Mybatis Plus
- Vue3 + Element Plus + Node.js
- MySQL 8.0 + Redis
- Maven 3.2.3+

2. ????????

2.1 ????????

```
├─ README.md # 
├─ pom.xml # Maven
├─ nacos.env # Nacos
├─ LICENSE # MIT
└─ .gitignore # Git
```

2.2 ???????? (init-config)

```
init-config/
├─ mysql/ # 
|   └─ readme.txt # 
|   └─  # SQL
|   └─ / # SQL
```

```
├─ nacos/                # Nacos
│  ├─ DEFAULT_GROUP/    #
│  ├─ install.txt       #
│  └─ nacos-seata-version-map.png
└─ seata/                #
   ├─ readme.txt
   ├─ seata-application.yml
   └─ seataServer.properties
```

2.3

```
logs/
└─ wimoor-gen/          #
   ├─ error.log        #
   ├─ info.log         #
   └─
```

3. ????????

3.1 ??????? (wimoor-common)

?? ???????

```
wimoor-common/
├─ common-core/        #
├─ common-core-ext/    #
├─ common-entity/      #
├─ common-feishu/      #
├─ common-mvc/         # MVC
├─ common-mybatis/     # Mybatis
├─ common-redis/       # Redis
├─ common-storage/     #
├─ common-swagger/     # API
└─ pom.xml
```

3.2 ????? (wimoor-gateway)

□□ □ API□□□□□□□□□□

```
wimoor-gateway/  
├─ src/main/java/          # □□□□□□  
├─ src/main/resources/    # □□□□  
│ └─ bootstrap.yml        # □□□□  
│ └─ bootstrap-dev.yml    # □□□□□□  
│ └─ bootstrap-prod.yml   # □□□□□□  
└─ target/                # □□□□
```

3.3 ????? (wimoor-admin)

□□ □□□□□□□□□□

```
wimoor-admin/  
├─ admin-api/              # API□□□□  
├─ admin-boot/            # □□□□  
└─ pom.xml
```

3.4 ????????? (wimoor-amazon)

□□ □□□□□□□□□□

```
wimoor-amazon/  
├─ amazon-api/            # □□□API□□  
├─ amazon-boot/          # □□□□□□□  
├─ amazon-follow/        # □□□□□□  
├─ amazon-sp-api/        # □□□SP API□□  
└─ pom.xml
```

3.5 ????????? (wimoor-amazon-adv)

□□ □□□□□□

```
wimoor-amazon-adv/  
├─ amazon-adv-api/        # □□API□□  
├─ amazon-adv-boot/      # □□□□□□□  
└─ pom.xml
```

3.6 API???? (wimoor-api)

□□ □□□□□□ API□□

```
wimoor-api/  
├─ wimoor-api-admin/      # □□API  
├─ wimoor-api-amazon/    # □□□API  
├─ wimoor-api-quote/     # □□API  
└─ pom.xml
```

3.7 ????? (wimoor-modules)

□□ □□□□□□□□

```
wimoor-modules/  
├─ wimoor-data/          # □□□□□□  
├─ wimoor-finance/      # □□□□□□  
├─ wimoor-gen/          # □□□□□□□□  
├─ wimoor-quote/       # □□□□□□  
└─ pom.xml
```

3.8 ERP?? (wimoor-erp)

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4. ??????????

4.1 ???????

□□□□□□□□□□□□□□

- **db_admin**□□□□□□□□
- **db_amazon**□□□□□□□□□□
- **db_amazon_adv**□□□□□□□□□□
- **db_erp**□ ERP□□□□□□
- **db_finance**□□□□□□
- **db_quartz**□□□□□□□□
- **db_quote**□□□□□□
- **db_datamove**□□□□□□□□

- seata

4.2

- t_user, t_role, t_sys_menu, t_user_role
- t_amazon_auth, t_product_info, t_amz_order_main
- t_amz_rpt_inventory_detail
- t_amz_settlement_report

5. ????????

5.1 ??????????

- Nacos +
- bootstrap.yml Nacos

5.2 ??????

- Seata
- AT TCC

5.3 API??

- Gateway
- Ribbon
- Hystrix

6. ?????

6.1 ?????

```
MySQL 8.0 #
Redis # Session
Nacos #
Seata #
```

6.2 ?????

1. □□ Nacos□□
2. □□ Seata□□
3. □□ Gateway□□
4. □□□□□□□□ admin, amazon, erp□□
5. □□□□ UI□□

7. ????????

7.1 ?????

- **IDE** □ IDEA□□□□□ Eclipse
- **JDK** □ JDK 1.8+
- □□□ □ MySQL 8.0
- □□ □ Redis
- □□□□ □ Maven 3.2.3+

7.2 ?????

1. □□□□□□
2. □□ Nacos□□□□
3. □□ Redis□□
4. □□□□□□□□□□
5. □□□□□□□□

8. ????????

8.1 ????????

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- 项目 项目
- 项目 项目

8.2 项目

- 项目 项目
- 项目 项目 + SpringBoot项目
- 项目 项目
- 项目 项目
- 项目 项目 Quartz项目
- 项目 项目

9. 项目

9.1 项目

项目

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- 项目
- 项目

9.2 项目

- 项目
- 项目
- 项目
- 项目

???????

1. ?????

Wimoor UI Vue 3 + Element Plus

ERP

Amazon

2. ????

2.1 ?????

- : Vue 3 (Composition API)
- **UI** : Element Plus
- : Vite
- : Vue Router 4
- : Vuex 4
- **HTTP** : Axios
- : ECharts 6

2.2 ?????

- : SVG Icons
- : TinyMCE
- : FileUpload
- : vue3-print-nb
- :
- : (v-hasPerm, v-hasPermi)

3. ?????

```
├─ src/
|   ├─ api/           # API 
|   │   ├─ amazon/   # Amazon 
|   │   └─ erp/      # ERP 
```

```
| | └─ finance/ # 财务报表
| | └─ sys/ # 系统管理
| └─ assets/ # 静态资源
| | └─ css/ # 样式表
| | └─ icons/ # SVG 图标
| | └─ image/ # 图片
| └─ components/ # 组件
| | └─ dialog/ # 对话框
| | └─ DictTag/ # 字典标签
| | └─ Editor/ # 富文本编辑器
| | └─ FileUpload/ # 文件上传
| | └─ ImageUpload/ # 图片上传
| | └─ Pagination/ # 分页
| | └─ RightToolbar/ # 右侧工具栏
| | └─ SvgIcon/ # SVG 图标
| | └─ Table/ # 表格
| └─ directive/ # 指令
| └─ filters/ # 过滤器
| └─ hooks/ # 钩子 Hooks
| └─ layout/ # 布局
| └─ model/ # 模型
| └─ plugins/ # 插件
| └─ router/ # 路由
| | └─ modules/ # 路由模块
| | └─ index.js # 路由配置
| └─ store/ # Vuex 状态管理
| | └─ modules/ # 状态管理模块
| | └─ index.js # 状态管理配置
| └─ utils/ # 工具函数
| └─ views/ # 视图
| | └─ amazon/ # Amazon 项目
| | └─ customized/ # 定制化
| | └─ dashboard/ # 仪表盘
| | └─ erp/ # ERP 系统
| | └─ finance/ # 财务报表
| | └─ sys/ # 系统管理
| └─ App.vue # 主入口
| └─ main.js # 入口文件
└─ .gitignore # Git 忽略文件
```


- API `src/api/`
- Axios HTTP
- API

7.3

- `src/router/`
- API
-

7.4

- Vuex 4
- mutations
- actions

7.5

- `v-hasPerm` `v-hasPermi`
- API Vuex
-

8. ???????

8.1 main.js

`Vue`

8.2 App.vue

8.3 router/index.js

- Vue []
- Element Plus []
- []
- [] (SvgIcon, DictTag, Pagination, GlobalTable)
- [] (v-hasPerm, v-hasPermi, v-dataType)
- [] (parseTime, download, useDict)

[] []

```

// 初始化Vue
const app = createApp(App);

// 注册插件
app.use(store).use(router).use(ElementPlus).use(print).use(plugings);

// 注册组件
app.component('GlobalTable', GlobalTable);
app.component('Pagination', Pagination);

// 注册指令
app.use(hasPerm).use(hasPermi).use(dataType);

// 挂载
app.mount('#app');

```

2.2 ?????

[] Vue Router 4 []

2.2.1 ?????

[]

- [] []
- [] [] API []

[] []

- sysRouter.js []
- erp.js [] ERP []
- amazon.js []
- finance.js []


```
});  
}
```

2.3 Layout ??

Layout

Element Plus `el-container`

2.3.1 ???????

```
<el-container>  
  <el-aside>           <!-- 侧边栏 -->  
    <AsideMenu />  
  </el-aside>  
  <el-container>  
    <el-header>       <!-- 顶部 -->  
      <HeaderTab />  
      <HeaderAvatar />  
    </el-header>  
    <el-main>        <!-- 主体 -->  
      <router-view>  
        <!-- 路由 -->  
      </router-view>  
    </el-main>  
  </el-container>  
</el-container>
```

2.3.2 ???????

- **AsideMenu**
- **HeaderTab**
- **HeaderAvatar**

2.3.3 ???????

Vue `keep-alive`

```
<keep-alive ref="keepAlive" :exclude="excludes">  
  <component :is="wrap($route.query.title, Component)" v-if="$route.meta.keepAlive"  
  :key="$route.query.title" />  
</keep-alive>  
<component :is="wrap($route.query.title, Component)" v-if="!$route.meta.keepAlive"  
:key="$route.query.title" />
```

■■■■■ □

- ■■ meta.keepAlive ■■■■■■■■
- ■■ excludes ■■■■■■■■■■
- ■■ clearCache ■■■■■■

2.4 ?????

■■ Vuex 4 ■■■■■■■■■■■■■■■■■■

2.4.1 Store ?????

- **routerStore**■■■■■■■
- **permissionStore**■■■■■■■
- **jessionStore**■■■■■■■
- **dateStore**■■■■■■■
- **finance**■■■■■■■
- **dict**■■■■■■■

2.4.2 ???????

routerStore□

- ■■■■■■
- ■■■■■■■■

permissionStore□

- ■■■■■■
- ■■■■■■

2.5 ?????

■■■■■■■■■■■■■■■■■■■

v-hasPerm □ v-hasPermi ■■■■■■■■

2.5.1 ?????

```
// v-hasPerm ■■■■■■■■■■■■■■■■
export const hasPerm = {
  install: (app) => {
    app.directive('hasPerm', {
      mounted(el, binding) {
        const permissions = store.state.permissionStore.permission;
```

```

    const value = binding.value;
    const hasPermission = permissions.has(value);
    if (!hasPermission) {
      el.parentNode.removeChild(el);
    }
  }
});
}
};

// v-hasPermi 权限控制
export const hasPermi = {
  install: (app) => {
    app.directive('hasPermi', {
      mounted(el, binding) {
        const permissions = Array.from(store.state.permissionStore.permission);
        const permissionFlag = binding.value;
        const hasPermissions = permissions.some(permission => {
          return "*:*:*" === permission || permissionFlag.includes(permission);
        });
        if (!hasPermissions) {
          el.parentNode.removeChild(el);
        }
      }
    });
  }
};
};

```

3. ????????

3.1 ?????

????????????

3.1.1 GlobalTable ??

☐ Element Plus Table ☐????????????

☐☐☐ ☐

- []
- []
- []
- []
- []
- []

[] []

```

<GlobalTable
  :table-data="tableData"
  :loading="loading"
  @row-click="handleRowClick"
  @selection-change="handleSelectionChange"
>
  <el-table-column prop="name" label="[ ]" />
  <el-table-column prop="status" label="[ ]" />
</GlobalTable>

```

3.1.2 Pagination ??

[] GlobalTable []

3.1.3 SvgIcon ??

SVG []

3.1.4 DictTag ??

[]

3.2 ???????

[]

Vue []

- **parseTime**[]
- **resetForm**[]
- **addDateRange**[]
- **handleTree**[]
- **selectDictLabel**[]
- **download**[]

3.3 ??????

UI????????

1. Pagination ?????

Pagination

Element Plus

1.1 ?????

-
-
-
-
-

1.2 ?????

```
<template>
  <Pagination
    v-model:page="queryParams.pageNum"
    v-model:limit="queryParams.pageSize"
    :total="total"
    @pagination="getList"
  />
</template>

<script setup>
import { ref } from 'vue'
import Pagination from '@components/Pagination/index.vue'

const queryParams = ref({
  pageNum: 1,
  pageSize: 20
})
const total = ref(0)

const getList = (pagination) => {
```



```

import { ref } from 'vue'
import GlobalTable from '@components/Table/GlobalTable/index.vue'

const globalTableRef = ref()
const tableData = ref({ records: [], total: 0 })
const queryParams = ref({})

const getList = (params, callback) => {
  // 调用API
  // 调用callback
  callback({
    records: data.list,
    total: data.total
  })
}

const handleRowClick = (row) => {
  console.log('点击:', row)
}
</script>

```

2.3 ????

2.3.1 ????

```

<GlobalTable
  :table-data="tableData"
  :lazy="true"
  :load="loadChild"
  :tree-props="{ children: 'children', hasChildren: 'hasChildren' }"
  @load-table="getList"
>
  <!-- 内容 -->
</GlobalTable>

<script setup>
const loadChild = (tree, treeNode, resolve) => {
  // 调用API
  // 调用resolve

```

```
    resolve(childData)
  }
</script>
```

2.3.2 ?????

```
<GlobalTable
  :table-data="tableData"
  :default-sort="{ prop: 'createTime', order: 'descending' }"
  @load-table="getList"
  @table-sort="handleSort"
>
  <!-- ☐☐☐ -->
</GlobalTable>

<script setup>
const handleSort = (option) => {
  queryParams.value.sort = option.prop
  queryParams.value.order = option.order.replace('ascending', 'asc').replace('descending',
'desc')
}
</script>
```

2.3.3 ?????

```
<GlobalTable
  :table-data="tableData"
  :show-summary="true"
  :summary-method="getSummaries"
  @load-table="getList"
>
  <!-- ☐☐☐ -->
</GlobalTable>

<script setup>
const getSummaries = ({ columns, data }) => {
  const sums = []
  columns.forEach((column, index) => {
    if (index === 0) {
      sums[index] = '☐☐'
    }
  })
}
```

```

    return
  }
  const values = data.map(item => Number(item[column.property]))
  sums[index] = values.reduce((prev, curr) => prev + curr, 0)
})
return sums
}
</script>

```

2.3.4 ??????

```

<GlobalTable
  :table-data="tableData"
  :field-type="'user_list'"
  @load-table="getList"
>
  <!--  -->
</GlobalTable>

```

field-type GlobalTable

/

2.4 ?????

2.4.1 ?????

```

<GlobalTable
  :table-data="tableData"
  @load-table="getList"
>
  <!--  -->
</GlobalTable>

```

2.4.2 ?????

```

<GlobalTable
  :table-data="tableData"
  :height="500"

```


3.2 ???????

□□ useDict hook □□□□□□

```
<script setup>
import { useDict } from '@/utils/dict'

// □□□□□□□□
const { status } = useDict('sys_status')

// □□□□□□□□
const { status, gender, userType } = useDict('sys_status', 'sys_user_gender', 'sys_user_type')
</script>
```

3.3 ???????

□□ DictTag □□□□□□□□

```
<template>
  <DictTag :options="status" :value="record.status" />
</template>

<script setup>
import { useDict } from '@/utils/dict'
import DictTag from '@/components/DictTag/index.vue'

const { status } = useDict('sys_status')
</script>
```

3.4 ???????

□□□□□□□□□□

```
<script setup>
import { selectDictLabel } from '@/utils/wimoor'
import { useDict } from '@/utils/dict'

const { status } = useDict('sys_status')
```

```
// 字典数据
const statusLabel = selectDictLabel(status.value, record.status)
</script>
```

3.5 ???????

字典数据 Vuex dictStore 字典数据

```
// 字典数据
import useDictStore from '@/hooks/store/useDictStore'

// 字典数据
const statusDict = useDictStore.getDict('sys_status')

// 字典数据
useDictStore.setDict('sys_status', dictData)

// 字典数据
useDictStore.removeDict('sys_status')

// 字典数据
useDictStore.cleanDict()
```

4. ??????

字典数据 v-hasPerm v-hasPermi 字典数据 /字典数据

4.1 ??????

- 字典数据 v-hasPerm
- 字典数据 v-hasPermi
- 字典数据
- 字典数据

4.2 ???????

4.2.1 v-hasPerm ???????

```
<el-button type="primary" v-hasPerm="'user:add'">按钮</el-button>
```

按钮 user:add 按钮

4.2.2 v-hasPermi ??????

```
<el-button type="danger" v-hasPermi="['user:edit', 'user:delete']">按钮</el-button>
```

按钮 user:edit 按钮 user:delete 按钮

4.3 ???????

permission.js 按钮

```
export const hasPerm = {
  install: (app) => {
    app.directive('hasPerm', {
      mounted(el, binding) {
        const permissions = store.state.permissionStore.permission;
        const value = binding.value;
        const flag = permissions.has(value);
        if (!flag) {
          el.parentNode.removeChild(el);
        }
      }
    });
  }
};
```

4.4 ???????

API 按钮 Vuex 按钮 permissionStore 按钮

```
// 按钮
avoid axios.get('/api/admin/api/v1/menus/route').then(res => {
  // 按钮
  store.dispatch("permissionStore/setPermission", res.data.data[0].meta.permissions);
});
```

4.5 ???????

4.5.1 ???????????

```
<GlobalTable
  :table-data="tableData"
  @load-table="getList"
>
  <el-table-column label="" width="150" fixed="right">
    <template #default="scope">
      <el-button type="primary" size="small" v-hasPerm="'user:edit'"
@click="handleEdit(scope.row)"></el-button>
      <el-button type="danger" size="small" v-hasPerm="'user:delete'"
@click="handleDelete(scope.row)"></el-button>
    </template>
  </el-table-column>
</GlobalTable>
```

4.5.2 ???????????

```
<el-form-item label="" prop="roleId" v-hasPerm="'user:assignRole'">
  <el-select v-model="form.roleId" placeholder="">
    <el-option v-for="role in roles" :key="role.roleId" :label="role.roleName"
:value="role.roleId" />
  </el-select>
</el-form-item>
```

4.5.3 ??????????

```
<el-menu-item v-for="menu in menus" :key="menu.path" :index="menu.path" v-
hasPerm="menu.permission">
  <template #title>
    <span>{{ menu.name }}</span>
  </template>
</el-menu-item>
```

5. ????????

5.1 SvgIcon ?????

```
<svg-icon icon-class="user" />
<svg-icon icon-class="edit" class="icon-large" />
```

5.2 FileUpload ???????

```
<FileUpload
  v-model="form.fileUrl"
  :limit="1"
  :file-list="fileList"
  @success="handleUploadSuccess"
/>
```

5.3 Editor ??????

```
<Editor
  v-model="form.content"
  :height="300"
  @change="handleContentChange"
/>
```

5.4 RightToolbar ????????

```
<RightToolbar @handleSizeChange="handleSizeChange">
  <el-button type="primary" @click="handleAdd">
    <i class="el-icon-plus"></i> []
  </el-button>
  <el-button type="danger" @click="handleDelete" :disabled="selectionList.length === 0">
    <i class="el-icon-delete"></i> []
  </el-button>
</RightToolbar>
```

6. ?????

6.1 ????????

```

<template>
  <div class="app-container">
    <RightToolbar @handleSizeChange="handleSizeChange">
      <el-button type="primary" v-hasPerm="'user:add'" @click="handleAdd">
        <i class="el-icon-plus"></i> ☐☐☐
      </el-button>
      <el-button type="danger" v-hasPerm="'user:delete'" @click="handleDelete"
:disabled="selectionList.length === 0">
        <i class="el-icon-delete"></i> ☐☐☐
      </el-button>
    </RightToolbar>

    <GlobalTable
      ref="globalTableRef"
      :table-data="tableData"
      :query-params="queryParams"
      @load-table="getList"
      @selection-change="handleSelectionChange"
    >
      <template #field>
        <el-table-column type="selection" width="55" />
        <el-table-column prop="userName" label="☐☐☐" />
        <el-table-column prop="gender" label="☐☐">
          <template #default="scope">
            <DictTag :options="gender" :value="scope.row.gender" />
          </template>
        </el-table-column>
        <el-table-column prop="status" label="☐☐">
          <template #default="scope">
            <DictTag :options="status" :value="scope.row.status" />
          </template>
        </el-table-column>
        <el-table-column label="☐☐" width="150" fixed="right">
          <template #default="scope">
            <el-button type="primary" size="small" v-hasPerm="'user:edit'"
@click="handleEdit(scope.row)">☐☐</el-button>
            <el-button type="danger" size="small" v-hasPerm="'user:delete'"
@click="handleDelete(scope.row)">☐☐</el-button>
          </template>
        </el-table-column>
      </template>
    </GlobalTable>
  </div>
</template>

```

```

        </template>
    </el-table-column>
</template>
</GlobalTable>
</div>
</template>

<script setup>
import { ref } from 'vue'
import GlobalTable from '@components/Table/GlobalTable/index.vue'
import RightToolbar from '@components/RightToolbar/index.vue'
import DictTag from '@components/DictTag/index.vue'
import { useDict } from '@utils/dict'

const globalTableRef = ref()
const tableData = ref({ records: [], total: 0 })
const queryParams = ref({})
const selectionList = ref([])

const { gender, status } = useDict('sys_user_gender', 'sys_status')

const getList = (params, callback) => {
    // 调用API
    callback(data)
}

const handleSelectionChange = (selection) => {
    selectionList.value = selection
}

const handleAdd = () => {
    // 添加
}

const handleEdit = (row) => {
    // 编辑
}

const handleDelete = (row) => {

```

```

// 初始化
}

const handleSizeChange = (size) => {
  globalTableRef.value.changeSize(size)
}
</script>

```

6.2 ???????

1. 初始化
 - 高度 `height`
 - `scrollbar-always-on`
 - `stripe` `border`
2. 初始化
 - `selectDictLabel`
3. 初始化
 -
 -

6.3 ???????

1. 初始化
 - `PascalCase`
 - `kebab-case`
2. **Props**
 - `Props`
 - `v-model`
3. 初始化
 -
 -
4. 初始化
 -
 - `setup script`
 -