说明文档

一. 数据源说明

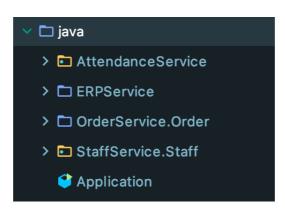
我们将提供的基础数据(2)表提取有效信息形成csv文件,日历、班次、资源、物品信息、产品BOM、订单信息分别对应arrangement.csv、workTime.csv、resource.csv、item.csv、BOM.csv、order.csv,staffInfo.csv用于人事系统中的身份验证。



二. 服务端代码说明

1. 目录结构

AttendanceService对应考勤系统,ERPService对应ERP系统,OrderService对应订单管理系统,StaffService对应人事系统。



2. 代码说明

以ERP系统中的获取物品信息该Web Service为例



GoodsItem.java是Goods.java所需要的持久化对象,如下图所示

```
public GoodsItem(String code, String name, String property, String measurementUnit, String color, String length, String hardness, String otherSpecification, String this.code = code;
this.name = name;
this.property = property;
this.measurementUnit = measurementUnit;
this.color = color;
this.length = length;
this.hardness = hardness;
this.otherSpecification = otherSpecification;
this.materialPreparation = materialPreparation;
this.materialPreparation = materialPreparation;
this.minimumPackingQuantity = minimumPackingQuantity;
}

public void show() {
    System.out.println("物料编码: " + code + "\t物料描述: " + name + "\t物品属性: " + property + "\tid量单位: " + measurementUnit + "\t颜色: " + color + "\ttte: " + ler
}

public String getCode() { return code; }

public void setCode(String code) { this.code = code; }
```

Goods.java是用来完成ERP系统的获取物品信息的Webservice逻辑代码,由于使用csv文件作为后台数据模拟数据存储,需要从本地读取相应的csv文件(此处是item.csv)来获得想要的信息,getAllGoods方法是获取所有物品信息的Webservice。

```
@WebMethod
public ArrayList<GoodsItem> getAllGoods() {
   ArrayList<GoodsItem> goodsItems = readCSV();
   return goodsItems;
}
```

在Application中发布服务

```
String address1 = "http://localhost:8080/goodsService";
Endpoint.publish(address1, new Goods());
System.out.println("GoodsService Published Successfully!");
System.out.println("Address1:" + address1);
```

运行客户端代码后,服务成功启动,在浏览器输入<u>http://localhost:8080/goodsService?wsdl</u>即可看到 生成的WSDL文件了

```
/Library/Java/JavaVirtualMachines/jdk1.8.0_221.jdk/Contents/Home/bin/java ..

ResourceService Published Successfully!

Address:http://localhost:8080/resourceService

GoodsService Published Successfully!

Address1:http://localhost:8080/goodsService

BOMService Published Successfully!

Address2:http://localhost:8080/BOMService

StaffService Published Successfully!

Address3:http://localhost:8080/StaffService

OrderService Published Successfully!

Address4:http://localhost:8080/OrderService
```

```
This XML file does not appear to have any style information associated with it. The document tree is shown below.
       Published by JAX-WS RI (http://jax-ws.java.net). RI's version is JAX-WS RI 2.2.9-b130926.1035 svn-revision#5f6196f2b90e9460065a4c2f4e30e065b245e51
▼<!--
        Generated by JAX-WS RI (http://jax-ws.java.net). RI's version is JAX-WS RI 2.2.9-b130926.1035 svn-revision#5f6196f2b90e9460065a4c2f4e30e065b245e516
"
"definitions xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" xmlns:wsp="http://www.w3.org/ns/ws-policy
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy" xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:soap="http://schemas.xmlsoap.org/wsd1/soap/" xmlns:tns="http://goods.ERPService/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.xmlsoap.org/wsd1/" targetNamespace="http://goods.ERPService/" name="GoodsService">
xmlns="http://schemas.xmlsoap.org/wsd1/" targetNamespace="http://goods.ERPService/" name="GoodsService">
xmlns="http://schemas.xmlsoap.org/wsd1/" targetNamespace="http://goods.ERPService/" name="GoodsService">
xmlns="http://schemas.xmlsoap.org/wsd1/" targetNamespace="http://goods.ERPService/" name="GoodsService">
xmlns="http://schemas.xmlsoap.org/wsd1/" targetNamespace="http://scods.ERPService/" name="GoodsService">
xmlns="http://schemas.xmlsoap.org/wsd1/" targetNamespace="http://schemas.xmlsoap.org/wsd1/" targetNamespace="http://schemas.xmlsoap.org/wsd1/" targetNamespace="http://schemas.xmlsoap.org/wsd1/" targetNamespace="http://schemas.xmlsoap.org/wsd1/" targetNamespace="http://schemas.
       ▼<xsd:schema>
        </types>
    ▼<message name
          <part name="parameters" element="tns:getAllGoods"/>
       </message>
   ▼<message name="getAllGoodsResponse"
    </operation>
 </input>
          </binding>
  ▼<service name="GoodsService">
       ▼<port name="GoodsPort" binding="tns:GoodsPortBinding">
         <soap:address location="http://localhost:8080/goodsService"/>
</port>
```

三. 客户端代码说明

1. 使用JAX-WS生成客户端代码

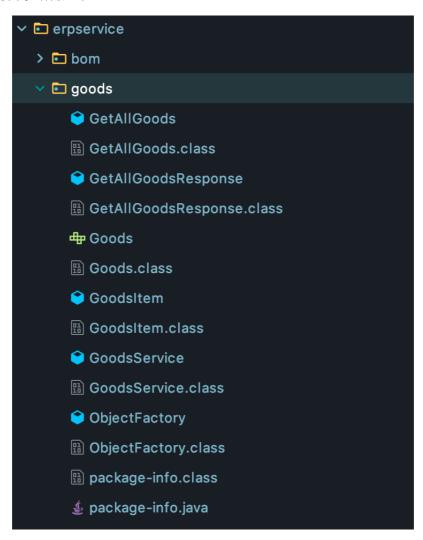
在终端输入以下指令

```
wsimport wsdl地址 -keep -d 保存位置路径
```

以goodService为例,输入以下指令即可在指定位置获得客户端代码,再将客户端代码移动至Client项目的src/main/java下即可

```
wsimport http://localhost:8080/goodsService?wsdl -keep -d
/Users/zhaoxingrui/Desktop
```

生成的客户端代码目录结构如下



2. 测试客户端

编写四个测试代码文件对客户端代码进行测试,比如测试goodService(位于TestERP.java文件中),测试代码如下,启动服务端后,打印所有物品的code和name信息



```
GoodsService goodsService = new GoodsService();
Goods goodsPort = goodsService.getGoodsPort();
List<GoodsItem> goodsItems = goodsPort.getAllGoods();
for (GoodsItem goodsItem: goodsItems){
    System.out.println(goodsItem.getCode() + " " + goodsItem.getName());
}
```

测试结果(部分)如下图所示

