功能菜单如下，结合HTML原型设计查看。

待办列表

历史待办

业务信息

主子表

文档

审批步骤/审批历史意见

审批/拒绝

# 测试数据准备

用户：ifsapp

维护审批配置信息，维护业务数据发起审批。

# 待办列表

## 与ERP接口-待办查询-待办列表

待办列表。

1、展示列表

2、根据业务类型和待办内容查询。

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 测试数据 | 字段说明 | |
| LU\_NAME | ApplyFoundMain | 主键 |
| LU\_DESCRIPTION | 费用请示 | 业务类型 |
| MSG\_INFO | "请示名称:­白银风电项目现场关于2015年迎新春联欢会费用的请示 | 待办内容 |
| PRE\_APP\_SIGN | IFSAPP | 上一步审批人 |
| PRE\_NOTE | 同意 | 上一步审批意见 |
| NOTE |  | 审批意见 |
| KEY\_REF | SIGN\_NO=201502021521032^ | 主键 |
| LINE\_NO |  | 行号(主键) |
| STEP\_NO |  | 步骤号(主键) |
| DESCRIPTION |  | 审批角色描述 |
| GROUP\_ID |  | 计划审批人员组 |
| PERSON\_ID |  | 计划审批人 |
| SUBMIT\_USER |  | 提交人 |
| 查询条件已经嵌入在函数中，按当前登录用户执行以下SQL即可。 | | |
| select LU\_NAME,  LU\_DESCRIPTION,  MSG\_INFO,  PRE\_APP\_SIGN,  PRE\_NOTE,  NOTE,  KEY\_REF,  LINE\_NO,  STEP\_NO,  DESCRIPTION,  GROUP\_ID,  PERSON\_ID, SUBMIT\_USER  from ifsapp.TODO\_VIEW\_LIST; | | |
| 当前用户查询，待办数量。小红点显示。 | | |
| select COUNT(1)  from ifsapp.TODO\_VIEW\_LIST; | | |

## 与ERP接口-历史待办查询-历史待办列表

历史待办列表。

1、展示列表

2、根据业务类型和待办内容查询。

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 测试数据 | 字段说明 | |
| LU\_NAME | ApplyFoundMain | 主键 |
| LU\_DESCRIPTION | 费用请示 | 业务类型 |
| MSG\_INFO | "请示名称:­白银风电项目现场关于2015年迎新春联欢会费用的请示 | 待办内容 |
| NOTE |  | 审批意见 |
| KEY\_REF | SIGN\_NO=201502021521032^ | 主键 |
| LINE\_NO |  | 行号(主键) |
| STEP\_NO |  | 步骤号(主键) |
| DESCRIPTION |  | 审批角色描述 |
| GROUP\_ID |  | 计划审批人员组 |
| PERSON\_ID |  | 计划审批人 |
| app\_sign |  | 审批人 |
| SUBMIT\_USER |  | 提交人 |
| 查询条件已经嵌入在函数中，按当前登录用户执行以下SQL即可。 | | |
| select LU\_NAME,  LU\_DESCRIPTION,  MSG\_INFO,  NOTE,  KEY\_REF,  LINE\_NO,  STEP\_NO,  DESCRIPTION,  GROUP\_ID,  PERSON\_ID, SUBMIT\_USER  from ifsapp.TODO\_VIEW\_LIST\_HIST; | | |

## JAVA中间层

//TODO

|  |  |
| --- | --- |
| 类名 | com.service.ticket. |
| 方法名 |  |

## 与前端页面接口

//TODO

调用方式

返回格式

{ "code":"0", "msg":"成功", "data":{"CARD\_STATE":"已批准","COIN\_SUM":"1000","CARD\_ID":"1468","MAINTAINER":"1096-刘兆旭","PLAN\_ID":"78","USED\_TIME\_TO":"2017-12-31 00:00:00.0","REMARK":"2017年四季度电子车票","GIVE\_SUM":"12","USED\_TIME\_FROM":"2017-10-01 00:00:00.0","MAINTAIN\_TIME":"2017-09-22 11:08:39.0","COIN\_ID":"30611"}}

|  |  |  |
| --- | --- | --- |
| MODE | URL | DATA\_TYPE |
| Post | http://xxxx/xxxxxx | json |

入参：

|  |  |  |  |
| --- | --- | --- | --- |
| 字段名称 | 类型 | 说明 | 必须 |
|  |  |  |  |
|  |  |  |  |

出参：视图字段列表

|  |  |  |  |
| --- | --- | --- | --- |
| 字段名称 | 类型 | 说明 | 必须 |
|  |  |  |  |
|  |  |  |  |

# 审批步骤

## 与ERP接口

当前登录用户查询，分页查询。

|  |  |  |
| --- | --- | --- |
| 字段 | 测试数据 | 字段说明 |
| LU\_NAME | FurloughApply |  |
| KEY\_REF | APPLY\_NO=201501BY040001^ |  |
| LINE\_NO | 10 |  |
| STEP\_NO | 1 |  |
| DESCRIPTION | 财务管理部经理 | 步骤描述 |
| APP\_SIGN | BY085 | 审批人 |
| APP\_DATE | 2015.01.13 9:43:19 | 审批时间 |
| NOTE |  | 审批意见 |
| SUBMIT\_USER | BY040 | 提交人 |
| 默认用户，根据lu\_name、key\_ref 查询；按行号 、 步骤号 ASC。 | | |
| SELECT t.lu\_name,  t.key\_ref,  t.line\_no,  t.step\_no,  t.description,  t.app\_sign,  t.app\_date,  t.last\_note note,  t.submit\_user  FROM ifsapp.approval\_routing\_tab t  WHERE lu\_name in (select logic\_unit  from auto\_model\_config\_tab  where is\_active = 'TRUE') | | |
| 审批步骤完成百分比。 | | |
| select count(approval\_status) app,  count(lu\_name) total  from approval\_routing\_tab  WHERE key\_ref = 'PROJECT\_APPROVAL\_ID=201801002^' ; | | |

## JAVA中间层

支持分页查询

|  |  |
| --- | --- |
| 类名 | com.service. |
| 方法名 |  |

## 与前端页面接口

调用方式

<http://localhost/AppSerivce/json?ServiceName=ETicketInfoService&TransName=listETicketInfoMy&UserID=0556&SignToken=7c78949ecf5a2cb5d5cbb1280d43a42a03beb64ee4d61e4e40992bc077b3f7a3>

返回格式

{ "code":"0", "msg":"成功", "data":[{"CARD\_ID":"1468","TICKET\_STYLE":"普通票","ROUTE":"1 - 电厂 - 兰州","ORDER\_TIME":"2017-12-05 11:24:56.0","VEHICLE":"HF-04 - 甘D.33436(合发）","TICKET\_STATE":"已订","DEPART\_DATE":"2017-12-11 09:00:00.0","COIN\_ID":"null","SEAT\_NO":"6","E\_TICKET\_ID":"319521"},{"CARD\_ID":"1468","TICKET\_STYLE":"普通票","ROUTE":"2 - 兰州 - 电厂","ORDER\_TIME":"2017-12-05 11:24:56.0","VEHICLE":"HF-04 - 甘D.33436(合发）","TICKET\_STATE":"已订","DEPART\_DATE":"2017-12-12 16:00:00.0","COIN\_ID":"null","SEAT\_NO":"6","E\_TICKET\_ID":"319590"}]}

|  |  |  |
| --- | --- | --- |
| MODE | URL | DATA\_TYPE |
| Post | http://xxxx/xxxxxx | json |

入参：

|  |  |  |  |
| --- | --- | --- | --- |
| 字段名称 | 类型 | 说明 | 必须 |
|  |  |  |  |
|  |  |  |  |

出参：视图字段列表

|  |  |  |  |
| --- | --- | --- | --- |
| 字段名称 | 类型 | 说明 | 必须 |
|  |  |  |  |
|  |  |  |  |

# 审批/拒绝

## 与ERP接口

|  |
| --- |
| 当前用户操作，  是否允许审批/拒绝  APP\_URL通过查询日志获取。  获取URL: APPROVAL\_LOG\_API.Get\_App\_Url(lu\_name, key\_ref) |
| 该方法暂时不使用  ifsapp.approval\_routing\_api.Check\_Can\_Approve\_Step  FUNCTION Check\_Can\_Approve\_Step (  lu\_name\_ IN VARCHAR2,  key\_ref\_ IN VARCHAR2,  line\_no\_ IN NUMBER,  step\_no\_ IN NUMBER,  person\_id\_ IN VARCHAR2,  group\_id\_ IN VARCHAR2 ) RETURN VARCHAR2;  //审批 |
| Client\_传入参数为 APP |
| Ifsapp.approval\_routing\_api.Start\_Approve  PROCEDURE Start\_Approve(lu\_name\_ IN VARCHAR2,  key\_ref\_ IN VARCHAR2,  line\_no\_ IN VARCHAR2,  step\_no\_ IN VARCHAR2,  desc\_ IN VARCHAR2,  url\_ IN VARCHAR2,  client\_ IN VARCHAR2 DEFAULT 'IFS\_EE' ); |
|  |
| //拒绝  approval\_routing\_api.Refuse\_Approve |
| PROCEDURE Refuse\_Approve(lu\_name\_ IN VARCHAR2,  key\_ref\_ IN VARCHAR2,  line\_no\_ IN VARCHAR2,  step\_no\_ IN VARCHAR2,  note\_ IN VARCHAR2,  url\_ IN VARCHAR2,  client\_ IN VARCHAR2 DEFAULT 'IFS\_EE'); |

## JAVA中间层

支持分页查询

|  |  |
| --- | --- |
| 类名 | com.service.ticket. |
| 方法名 |  |

## 与前端页面接口

调用方式

<http://localhost/AppSerivce/json?ServiceName=ETicketInfoService&TransName=formETicketInfoMyQRCode&eTikectId=319521&UserID=0556&SignToken=528f250bab01811db1e12b01adeaaaa15095a9e6f83347445fd12b6e4d81c205>

返回格式

{ "code":"0", "msg":"成功", "data":{"CARD\_ID":"1468","TICKET\_STYLE":"普通票","ROUTE":"1 - 电厂 - 兰州","ORDER\_TIME":"2017-12-05 11:24:56.0","VEHICLE":"HF-04 - 甘D.33436(合发）","TICKET\_STATE":"已订","DEPART\_DATE":"2017-12-11 09:00:00.0","COIN\_ID":"null","SEAT\_NO":"6","E\_TICKET\_ID":"319521"}}

|  |  |  |
| --- | --- | --- |
| MODE | URL | DATA\_TYPE |
| Post | http://xxxx/xxxxxx | json |

入参：

|  |  |  |  |
| --- | --- | --- | --- |
| 字段名称 | 类型 | 说明 | 必须 |
|  |  |  |  |
|  |  |  |  |

出参：视图字段列表

|  |  |  |  |
| --- | --- | --- | --- |
| 字段名称 | 类型 | 说明 | 必须 |
|  |  |  |  |
|  |  |  |  |

# 文档

## 与ERP接口

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 测试数据 | 字段说明 | |
| DOC\_CLASS | 18-2-8 | 主键 |
| DOC\_NO | 2015-18-2-8-00006 | 主键 |
| DOC\_SHEET | 1 | 主键 |
| DOC\_REV | A1 | 主键 |
| LU\_NAME | cpContractManageMain | 主键 |
| KEY\_REF | CONTRACT\_ID=2015-1101-ZL-0001^ | 主键 |
| LOCATION\_NAME | 18-2-8 | 位置 |
| PATH | \18-2-8\ | 路径 |
| FILE\_NAME | 18-2-8-2015-18-2-8-00006-1-A1-1.DOC | 内部系统文件名 |
| USER\_FILE\_NAME | 房屋租赁合同--安宁飞天家园.doc | 原始文件名 |
| FILE\_TYPE | WORD03 | 文档类型 |
| 根据lu\_name 和 key\_ref，默认用户查询文档列表信息。 | | |
| 需要配置根据https/ftp文件服务器去下载打开文件。 | | |
| select DOC\_CLASS,  DOC\_NO,  DOC\_SHEET,  DOC\_REV,  LU\_NAME,  KEY\_REF,  LOCATION\_NAME,  PATH,  FILE\_NAME,  USER\_FILE\_NAME,  FILE\_TYPE  from ifsapp.APP\_DOC\_INFO; | | |

## JAVA中间层

支持分页查询

|  |  |
| --- | --- |
| 类名 | com.service.ticket. |
| 方法名 |  |

## 与前端页面接口

调用方式

<http://localhost/AppSerivce/json?ServiceName=ETicketInfoService&TransName=funCreateRideCode&UserID=0556&SignToken=7c78949ecf5a2cb5d5cbb1280d43a42a03beb64ee4d61e4e40992bc077b3f7a3&cardId=1468&addTicketNum=1>

返回格式

{ "code":"0", "msg":"成功", "data":{"CARD\_ID":"1468","EXPIRY\_TIME":"2017-12-05 14:39:16.0","ADD\_TICKET\_NUM":"1","TEMP\_RIDE\_CODE":"5F92ACBD25B1010EE0530AD4B643D1B9"}}

|  |  |  |
| --- | --- | --- |
| MODE | URL | DATA\_TYPE |
| Post | http://xxxx/xxxxxx | json |

入参：

|  |  |  |  |
| --- | --- | --- | --- |
| 字段名称 | 类型 | 说明 | 必须 |
|  |  |  |  |
|  |  |  |  |

出参：视图字段列表

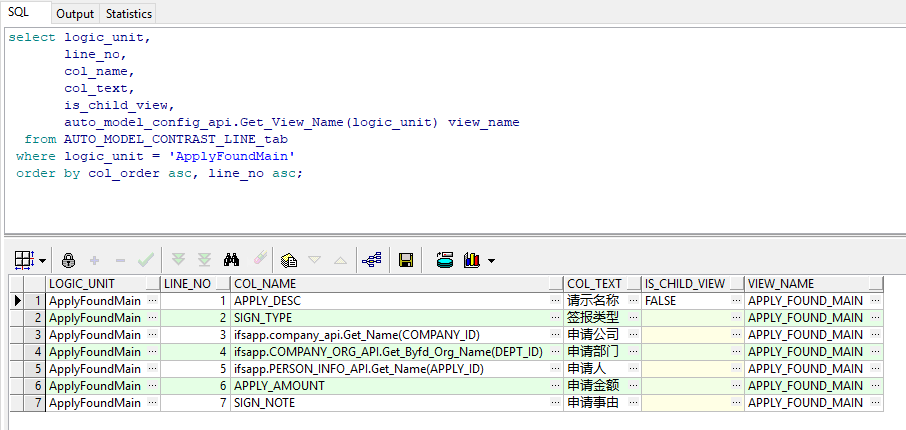
|  |  |  |  |
| --- | --- | --- | --- |
| 字段名称 | 类型 | 说明 | 必须 |
|  |  |  |  |
|  |  |  |  |

# 业务信息

## 与ERP接口-主表信息

业务信息配置表放入系统缓存中。

|  |
| --- |
| 默认用户查询，根据logic\_unit ，即LU\_NAME ，查询出业务主表需要展示的信息。然后拼接成SQL。 |
| select logic\_unit, line\_no, col\_name, col\_text, is\_child\_view,auto\_model\_config\_api.Get\_View\_Name(logic\_unit) view\_name  from ifsapp.AUTO\_MODEL\_CONTRAST\_LINE\_tab  where logic\_unit = 'ApplyFoundMain'  order by col\_order asc, line\_no asc ; |



根据列名在视图view\_name中查询列名，列名对应描述为col\_text。

## 与ERP接口-子表信息

|  |
| --- |
| 默认用户查询，根据logic\_unit ，即LU\_NAME ，查询出需要展示的业务子菜单。  按顺序排列 |
| select a.logic\_unit, a.menu\_no, a.description, a.view\_name  from ifsapp.AUTO\_MODEL\_DETAIL a  where a.logic\_unit = 'ApplyFoundMain'  and a.is\_active\_db = 'TRUE'  order by menu\_no |

|  |
| --- |
| 每个子表页需要展示主表的数据部分，通过is\_child\_view 属性识别，在子表中展示。  查询每个子表需要展示的数据信息。 |
| select \*  from AUTO\_MODEL\_DETAIL\_LINE a |

## JAVA中间层

支持分页查询

|  |  |
| --- | --- |
| 类名 | com.service.ticket. |
| 方法名 |  |

## 与前端页面接口

调用方式

http://localhost/AppSerivce/json?ServiceName=ETicketInfoService&TransName=funCancleTicket&UserID=0556&SignToken=7c78949ecf5a2cb5d5cbb1280d43a42a03beb64ee4d61e4e40992bc077b3f7a3&eTicketId=319521

|  |  |  |
| --- | --- | --- |
| MODE | URL | DATA\_TYPE |
| Post | http://xxxx/xxxxxx | json |

入参：

|  |  |  |  |
| --- | --- | --- | --- |
| 字段名称 | 类型 | 说明 | 必须 |
|  |  |  |  |
|  |  |  |  |

出参：视图字段列表

|  |  |  |  |
| --- | --- | --- | --- |
| 字段名称 | 类型 | 说明 | 必须 |
|  |  |  |  |
|  |  |  |  |

# 审批通知

## 移动端审批通知推送

//TODO

## IFS端审批通知推送

//TODO