app系统接口详细流程及接口定义

# 方案概述

所有数据均使用HTTPS协议中的post方法进行传递，如需加密传输，可以考虑使用具体的加密和解密算法。请求和返回数据建议均使用json格式。为保证数据安全，在每个接口的请求报文中加上一个签名，以及校验签名所必要的信息。请求接口的编码格式为application/x-www-form-urlencoded

需要以下接口：

1. 支付宝用户新加入中化积分会员接口；
2. 检查支付宝用户的中化积分卡接口；
3. 支付宝用户绑定中化积分卡接口；
4. 支付宝用户查询绑定会员积分余额接口；
5. 支付宝用户查询绑定会员消费查询接口；
6. 支付宝用户维护发票信息接口;
7. 支付宝用户读取发票维护信息接口;

# 接口具体结构

## 支付宝用户新加入中化积分会员接口

**接口1：新增会员**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **接口编码** | | | | |
| AddMemberService | | | | |
| **接口描述** | | | | |
| 支付宝传入用户身份证号、姓名、手机号码，接口实现自动受理新增积分会员，分配中化会员卡号，绑定支付宝账号和会员卡号，返回会员卡号 | | | | |
| **输入参数** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 应用编号 | app\_ident | string(64) |  | 访问系统编号 |
| 请求数据 | request\_data | string(255) |  | 必须 |
| **输入示例** | | | | |
| {"app\_ident":"","request\_data":{" ID\_card ":"xxxxxxxxxxxx","name":"xxxxxxxx","phone":"xxxxxxxx",”ali\_ID”:”132xxxxxxx”}} | | | | |
| **示例说明** | | | | |
| ID\_card:身份证号  name:会员姓名  phone:电话号码  ali\_ID:支付宝账号 | | | | |
| **返回结果** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 状态 | response\_status |  |  | success-成功，false-失败 |
| 信息 | response\_msg |  |  | 状态为失败时，有值；状态为成功时，为空值. |
| 数据 | response\_data |  |  |  |
| **返回示例** | | | | |
| {"response\_status":"success","response\_msg":"","response\_data":{"cardno ":" xxxxxxxxxxxx ","name":" xxxxxxxx ","phone":" xxxxxxxx "}} | | | | |
| **示例说明** | | | | |
| response\_status: success-成功，false-失败.  response\_msg:状态为失败时，有值；状态为成功时，为空值.  response\_data:数据部分，本接口是一个字典类型  cardno:分配中化会员卡号  name:会员姓名  phone: 手机号码 | | | | |

## 支付宝绑定中化积分会员接口

**接口2：检测支付宝会员是否已经存在中化积分会员卡**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **接口编码** | | | | |
| getCardsService | | | | |
| **接口描述** | | | | |
| 支付宝传入用户身份证号码，检测该身份证是否已经办理过中化积分会员并返回会员卡号、姓名、电话号码等有效信息。 | | | | |
| **输入参数** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 应用编号 | app\_ident | string(64) |  | 访问系统编号 |
| 请求数据 | request\_data | string(255) |  | 必须 |
| **输入示例** | | | | |
| {"app\_ident":"","request\_data":{"ID\_card ":"xxxxxxxxxxxx","name":"xxxxxxxx"}} | | | | |
| **示例说明** | | | | |
| ID\_card：身份证号  name:姓名 | | | | |
| **返回结果** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 状态 | response\_status |  |  | success-成功，false-失败 |
| 数据 | response\_data |  |  | 状态为成功时，有值；状态为失败时，为空值. |
| **返回示例** | | | | |
| {"response\_status":"success","response\_data":{{"cardno ":" xxxxxxxxxxxx ","name":" xxxxxxxx ","phone":" xxxxxxxx "},{"cardno ":" xxxxxxxxxxxx ","name":" xxxxxxxx ","phone":" xxxxxxxx "}}} | | | | |
| **示例说明** | | | | |
| response\_status: success-成功，false-失败.  response\_data: 状态为失败时，有值；状态为成功时，为空值.  cardno:会员卡卡号  name:会员姓名  phone：电话号码 | | | | |

**接口3：绑定会员卡号和密码**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **接口编码** | | | | |
| bindCardsService | | | | |
| **接口描述** | | | | |
| 支付宝传入会员卡号和密码,在中化验证是否为中化会员，成功后支付宝绑定该用户和会员卡号。 | | | | |
| **输入参数** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 应用编号 | app\_ident | string(64) |  | 访问系统编号 |
| 请求数据 | request\_data | string(255) |  | 必须 |
| **输入示例** | | | | |
| {"app\_ident":"","request\_data":{" card\_no ":"xxxxxxxxxxxx"," card\_pwd ":"xxxxxxxx",”ali\_ID”:”132xxxxx”}} | | | | |
| **示例说明** | | | | |
| card\_no：会员卡号  card\_pwd:会员卡密码  ali\_ID:支付宝账号 | | | | |
| **返回结果** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 状态 | response\_status |  |  | success-成功，false-失败 |
| 信息 | response\_msg |  |  | 状态为失败时，有值；状态为成功时，为空值. |
| 数据 | response\_data |  |  |  |
| **返回示例** | | | | |
| {"response\_status":"success","response\_msg":"","response\_data":{"is\_member":"1","card\_no":"10086"}} | | | | |
| **示例说明** | | | | |
| response\_status: success-成功，false-失败.  response\_msg:状态为失败时，有值；状态为成功时，为空值.  response\_data:数据部分，本接口是一个字典类型  is\_member:是否是会员 ，0：不是，1：是  card\_no:会员卡卡号 | | | | |

## 支付宝平台查询绑定会员积分余额接口

**接口4：查询积分余额**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **接口编码** | | | | |
| getMCardService | | | | |
| **接口描述** | | | | |
| 支付宝传入支付宝帐号，接口实现返回会员信息(会员姓名，会员卡号，积分余额，储值卡余额)。 | | | | |
| **输入参数** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 应用编号 | app\_ident | string(64) |  | 访问系统编号 |
| 请求数据 | request\_data | string(255) |  | 必须 |
| **输入示例** | | | | |
| {"app\_ident":"","request\_data":{" ali\_ID":"xxxxxxxxxxxx"}} | | | | |
| **示例说明** | | | | |
| Ali\_ID：支付宝账号 | | | | |
| **返回结果** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 状态 | response\_status |  |  | success-成功，false-失败 |
| 信息 | response\_msg |  |  | 状态为失败时，有值；状态为成功时，为空值. |
| 数据 | response\_data |  |  |  |
| **返回示例** | | | | |
| {"response\_status":"success","response\_msg":"","response\_data":{"cardno ":" xxxxxxxxxxxx ","name":" xxxxxxxx ","m\_amount":" xxxxxxxx "  ,”c\_amount”:””}} | | | | |
| **示例说明** | | | | |
| response\_status: success-成功，false-失败.  response\_msg:状态为失败时，有值；状态为成功时，为空值.  response\_data:数据部分，本接口是一个字典类型  cardno:会员卡号  name:会员姓名  m\_amount: 会员卡积分余额  c\_amount:储值卡余额 | | | | |

## 支付宝平台查询绑定会员积分明细情况

**接口5：查询积分明细**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **接口编码** | | | | |
| listTransService | | | | |
| **接口描述** | | | | |
| 支付宝传入支付宝账号、开始时间、结束时间，接口实现返回会员积分、消费，时间段期间积分明细情况。 | | | | |
| **输入参数** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 应用编号 | app\_ident | string(64) |  | 访问系统编号 |
| 请求数据 | request\_data | string(255) |  | 必须 |
| **输入示例** | | | | |
| {"app\_ident":"","request\_data":{"ali\_ID ":"xxxxxxxxxxxx"," begin\_date":"xxxxxxxxxxxx"," end\_date":"xxxxxxxxxxxx"}} | | | | |
| **示例说明** | | | | |
| ali\_ID：支付宝账号  begin\_date: 开始时间  end\_date：结束时间 | | | | |
| **返回结果** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 状态 | response\_status |  |  | success-成功，false-失败 |
| 信息 | response\_msg |  |  | 状态为失败时，有值；状态为成功时，为空值. |
| 数据 | response\_data |  |  |  |
| **返回示例** | | | | |
| {"response\_status":"success","response\_msg":"","response\_data":{[{"shopname":"厦门黄厝站","workdate":"2015-1-1 11：20 ",”mtype”:”  积分”, "transamount":"100","amount":"100","menu":" xxxxxxxxxxxx "},{"shopname":"厦门黄厝站",”mtype”:”消费-积分”,"workdate":"2015-1-3 11：20 ","amount":"1900","menu":" xxxxxxxxxxxx "}]} | | | | |
| **示例说明** | | | | |
| response\_status: success-成功，false-失败.  response\_msg:状态为失败时，有值；状态为成功时，为空值.  response\_data:数据部分，本接口是一个字典类型  shopname:消费油站  transamount:交易金额  mtype:积分消费类型，积分，积分抵扣  workdate:发生时间  mamount: 积分金额(正为积分，负为消费)  menu:备注 | | | | |

## 支付宝平台维护会员发票信息接口

**接口6：保存会员发票信息**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **接口编码** | | | | |
| invoiceService | | | | |
| **接口描述** | | | | |
| 支付宝传入支付宝账号、开票科目、发票名称、邮寄地址、电话，接口实现会员发票信息的保存。 | | | | |
| **输入参数** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 应用编号 | app\_ident | string(64) |  | 访问系统编号 |
| 请求数据 | request\_data | string(255) |  | 必须 |
| **输入示例** | | | | |
| {"app\_ident":"","request\_data":{"ali\_ID ":"xxxxxxxxxxxx",”invoice\_account”:”xx”," invoice\_name":"xxxxxxxxxxxx"," post\_addr":"xxxxxxxxxxxx"  ,”telphone”:””}} | | | | |
| **示例说明** | | | | |
| ali\_ID：支付宝账号  invoice\_account:发票科目  invoice\_name:发票名称  post\_addr：邮寄地址  telephone:电话 | | | | |
| **返回结果** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 状态 | response\_status |  |  | success-成功，false-失败 |
| 信息 | response\_msg |  |  | 状态为失败时，有值；状态为成功时，为空值. |
| 数据 | response\_data |  |  |  |
| **返回示例** | | | | |
| {"response\_status":"success","response\_msg":""," Amount":"100","response\_data":{}} | | | | |
| **示例说明** | | | | |
| response\_status: success-成功，false-失败.  response\_msg:状态为失败时，有值；状态为成功时，为空值.  response\_data:数据部分，本接口是一个字典类型 | | | | |

**接口7：读取会员发票信息**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **接口编码** | | | | |
| listInoviceService | | | | |
| **接口描述** | | | | |
| 支付宝传入支付宝账号，接口实现读取发票信息。 | | | | |
| **输入参数** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 应用编号 | app\_ident | string(64) |  | 访问系统编号 |
| 请求数据 | request\_data | string(255) |  | 必须 |
| **输入示例** | | | | |
| {"app\_ident":"","request\_data":{"ali\_ID ":"xxxxxxxxxxxx"}} | | | | |
| **示例说明** | | | | |
| ali\_ID：支付宝账号 | | | | |
| **返回结果** | | | | |
| **字段名称** | **变量名** | **数据类型** | **默认值** | **说明** |
| 状态 | response\_status |  |  | success-成功，false-失败 |
| 信息 | response\_msg |  |  | 状态为失败时，有值；状态为成功时，为空值. |
| 数据 | response\_data |  |  |  |
| **返回示例** | | | | |
| {"response\_status":"success","response\_msg":""," Amount":"100","response\_data":{“invoice\_account”:””,” invoice\_name”:””,”  post\_addr”:””}} | | | | |
| **示例说明** | | | | |
| response\_status: success-成功，false-失败.  response\_msg:状态为失败时，有值；状态为成功时，为空值.  response\_data:数据部分，本接口是一个字典类型  invoice\_account:发票科目  invoice\_name:发票名称  post\_addr：邮寄地址 | | | | |