打卡系统服务接口设计

# 文档版本

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| **时间** | **版本** | **作者** | **修改内容** |
| 2016-06-18 | 1.0.0 | 刘洋 | 第一版 |
| 2016-06-27 | 1.0.1 | 刘洋 | 1. 添加用户状态查询 2. 基本用户信息添加functions |
|  |  |  | 1. 公司办公室信息   native -> hiredOffice;  clockingStartTime -> clockingStartSeconds;  clockingStopTime -> clockingStopSeconds   1. 准备打卡   去除时间信息，在get url中只保留日期信息  当返回yes时，message给出二维码文本正则表达式   1. 基本用户信息   删除clocked |
|  |  |  |  |

# 登录注册接口

## 登录注册请求 <http://clocking.genisky.com/register>

当用户第一次使用软件或者请求用户信息失败后申请登录注册请求，软件创建新的账号信息并存储返回信息到账号中。该请求为**post**请求：

{

phone: “” /\*string, phone number\*/

password: “”/\*string. MD5 code for password\*/

imei: “”/\*string. Phone IMEI code\*/

}

返回的信息为

{

id: “”/\*string. User ID for registration\*/

services: “”/\*URI string. Root location for all service URI\*/

token: “”/\*string. Authentication token used for all requests in header ‘authentication-token’\*/

}

# 用户信息查询接口

所有的请求都包含http header: “**clocking-authentication-token**”, 其值为用户登录注册回复中的token。所有的请求都是**get**请求

## 用户状态查询 <services>/stateinfo?user=<id>

当用户注册成功后以及每次打开主界面时查询用户状态。返回的数据为：

{

state: “”/\*string. user state, may be ‘active’, ‘inactive’, ‘unknown’, only active user can operate UI\*/

}

## 基本用户信息 <services>/userinfo?user=<id>

用于每次打开主界面时的更新请求，主界面面板根据返回信息更新显示，并更新账号信息中的用户信息. 返回的数据为

{

name: “”/\*string. user name\*/

title: “”/\*string. user job title\*/

picture: “”/\*string. BASE64 codes for user picture bytes. 40 points \* 40 points\*/

department: “”/\*string. department name\*/

company: “”/\*string. company name\*/

companyPicture: “”/\*string. optional. BASE64 codes for company background. Height: 450 points, width: 540 points\*/

messageCount: “”/\*unread message count on server\*/

functions: [

“”,”” /\*可使用的功能列表，可为 "照相打卡", "打卡补录", "打卡修正", "加班申请", "消息推送", "未审核项", "月报查询"\*/

]

}

## 准备打卡 <services>/prepareclocking?user=<id>&day=<yyyy-MM-dd>

用于点击打卡图标时查询是否现在可以打卡。返回的数据为

{

result: “”/\*string. if user can clock or not. May be ‘yes’or ‘no’\*/

message: “”/\*string. reason message if the result is ‘no’, or regular expression for barcode text if the result is ‘yea’\*/

}

## 准备打卡补录 <services>/prepareamending?user=<id>

用于点击打卡补录图标是查询是否现在可以补录。返回的数据为

{

result: “”/\*string. if user can clock or not. May be ‘yes’or ‘no’\*/

message: “”/\*string. reason message if the result is ‘no’\*/

}

## 准备打卡修正 <services>/prepareadjusting?user=<id>

用于点击打卡修正图标是查询是否现在可以修正。返回的数据为

{

result: “”/\*string. if user can clock or not. May be ‘yes’or ‘no’\*/

message: “”/\*string. reason message if the result is ‘no’\*/

}

## 公司办公室信息 <services>/officeinfo?company=<company>

用于打开照相打卡界面时查询公司信息。 返回的数据为

{

hiredOffice: “”/\*string. user department office where user is hired\*/

offices: [ /\*all office definitions\*/

{

name: “”/\*string. office name\*/

longitude: “”/\*double. Longitude value of office location\*/

latitude: “”/\*double. Latitude value of office location\*/

clockingDistance: “”/\*double in meter. Distance to office for clocking\*/

clockingStartSeconds: “”/\*long in seconds. Start seconds from 00:00:00 for clocking\*/

clockingStopSeconds: “”/\*long in seconds. Stop seconds from 00:00:00 for clocking\*/

},

……

]

}

## 组织信息 <services>/organizationinfo?user=<id>

用于打开补录, 修正以及加班界面时查询用户的组织信息。返回的数据为

{

manager: {

name: “”/\*manager name\*/

id: “”/\*manager id\*/

},

auditmanager: {

name: “”/\*audit manager name\*/

id: “”/\*audit manager id\*/

},

colleagues: [ /\*all colleagues under same manager\*/

{

name: “”/\*colleague name\*/

id: “”/\*colleague id\*/

},

……

]

members: [ /\*all member users under current user\*/

{

name: “”/\*member name\*/

id: “”/\*member id\*/

},

……

]

}

## 用户通知消息 <services>/messageinfo?user=<id>

用于打开消息通知界面时查询未读消息。返回数据为：

{

messages:[ /\*all unread message for current user\*/

{

id: “”/\*message id\*/

datetime: “” /\*message generation time. In format ‘yyyy-MM-dd HH:mm:ss’\*/

title: “”/\*message title\*/

content: “message content”/\*message content\*/

},

……

]

}

## 用户审核项 <services>/audititeminfo?user=<id>

用于打开待审核项界面时查询当前用户所有的待审核项。返回数据为：

{

audititems: [ /\*all audit items for current user\*/

{

id: “”/\*audit item id\*/

title: “”/\*audit item title. May be ‘加班申请’ or ‘打卡修正申请’\*/

request: “”/\*request user name for the audit item\*/

people: [“”,……] /\*people names for the audit item\*/

datetime: “” /\*date time information for the audit item\*/

},

……

]

}

## 报表查询 <services>/reportinfo?user=<id>&start=<yyyy-MM-dd>&stop=<yyyy-MM-dd>

用于打开月报查询界面时查询当前用户的月报信息。返回数据为：

{

summary: {

clocked: “”/\*integer. Total clocking count during the day range\*/

overwork: “”/\*integer. Total overwork hours during the day range\*/

},

detail: [ /\*report for each day\*/

{

date: “”/\*date string in format ‘yyyy-MM-dd’\*/

state: “”/\*clocking state on that date. May be **combination with ‘|’** of ‘clocked’, ‘amended’, ‘adjusted’, or ‘overwork’. e.g. ‘clocked|overwork’\*/

},

……

]

}

# 业务需求接口

所有的请求都包含http header: “**clocking-authentication-token**”, 其值为用户登录注册回复中的token。所有的请求都是**post**请求

## 照相打卡请求 <services>/clocking

照相打卡请求

{

request: “”/\*request user id\*/

code: “”/\*string. decoded barcode from picture. Generated in format “<office\_name>-<office\_key>-<yyyy-MM-dd HH:mm:ss>”\*/

date: “”/\*string. request clocking date in format ‘yyyy-MM-dd’\*/

time: “”/\*string. request clocking time in format ‘HH:mm:ss’\*/

longitude: “”/\*double. Longitude value of user location\*/

latitude: “”/\*double. Latitude value of user location\*/

office: “”/\*string. clocking office name\*/

}

返回的数据为

{

result: “”/\*string. may be ‘success’ or ‘failure’\*/

message: “”/\*string. reason message for result no matter success or failure\*/

}

## 打卡补录请求 <services>/amending

打卡补录请求

{

request: “”/\*request user id\*/

people: [“”, ……] /\*user id string array who are amended\*/

date: “”/\*string. request amending date in format ‘yyyy-MM-dd’\*/

}

返回的数据为

{

result: “”/\*string. may be ‘success’ or ‘failure’\*/

message: “”/\*string. reason message for result no matter success or failure\*/

}

## 打卡修正请求 <services>/adjusting

打卡修正请求

{

request: “”/\*request user id\*/

people: [“”, ……] /\*user id string array who are amended\*/

date: “”/\*string. request amending date in format ‘yyyy-MM-dd’\*/

audit: “”/\*audit manager id\*/

}

返回的数据为

{

result: “”/\*string. may be ‘success’ or ‘failure’\*/

message: “”/\*string. reason message for result no matter success or failure\*/

}

## 加班申请请求 <services>/overworking

加班申请请求

{

request: “”/\*request user id\*/

people: [“”, ……] /\*user id string array who are amended\*/

date: “”/\*string. request amending date in format ‘yyyy-MM-dd’\*/

starttime: “”/\*string. start time for overworking in format ‘HH:mm:ss‘\*/

stoptime: “”/\*string. stop time for overworking in format ‘HH:mm:ss‘\*/

audit: “”/\*audit manager id\*/

}

返回的数据为

{

result: “”/\*string. may be ‘success’ or ‘failure’\*/

message: “”/\*string. reason message for result no matter success or failure\*/

}

## 审核请求 <services>/auditing

审核请求

{

request: “”/\*user id\*/

id: “”/\*audit item id\*/

operation: “”/\*string. operation for the audit item. May be ‘accept’ or ‘reject’\*/

}

返回的数据为

{

result: “”/\*string. may be ‘success’ or ‘failure’\*/

message: “”/\*string. reason message for result no matter success or failure\*/

}