人力工时统计系统

API

RESTful API（根据需要请求并获得数据）

1. 获取员工当天工时信息

请求地址

```
/api/v1/manhour/today/<employee ID>
```

请求方式

`GET`

传入参数

TBD

传参举例

```
/api/v1/manhour/today/G1234567
```

返回参数

TBD

返回举例

```json
{
    "code": 0,
    "msg": "success",
    "data": {
        "employee_id": "G1234567",
        "employee_name": "王五",
        "date": "2020-07-01",
        "records": [
            {
                "production_line": "LINE-5",
                "schedule_start": "2020-07-01 08:00:00",
                "actually_start": "2020-07-01 07:53:37",
                "schedule_end": "2020-07-01 12:00:00",
                "actually_end": "2020-07-01 12:02:45",
            },
            {
                "production_line": "LINE-4",
                "schedule_start": "2020-07-01 14:00:00",
                "actually_start": "2020-07-01 14:05:25",
                "schedule_end": "2020-07-01 18:00:00",
                "actually_end": "2020-07-01 19:54:21",
            },
        ],
        "manhours": {
            "total": 8,
            "detail": [
                {
                    "type": 1,
                    "manhours": 4
                },
                {
                    "type": 2,
                    "manhours": 4
                },
            ]
        }
    }
}
```

2. 获取员工历史工时信息

根据给定时间段查询过去一段时间内某员工的所有工时信息

3. 获取部门所有员工当天（/历史）工时统计

4. 获取生产线所有员工当天（/历史）工时统计

2. MQTT topics（近实时接收，一有结果就立即得知）

1. 订阅特定员工工号

```
topics/manhours/employee/<employee_ID>
```

每当后台服务同步并计算得到员工的工时信息，会立即发布消息，client 端订阅服务会收到如下示例信息：

```
'{"code": 0, "msg": "success", "data": {"employee_id": "G1234567",
"employee_name": "王五", "date": "2020-07-01", "records": [{"production_line":
"LINE-5", "schedule_start": "2020-07-01 08:00:00", "actually_start": "2020-07-
01 07:53:37", "schedule_end": "2020-07-01 12:00:00", "actually_end": "2020-07-
01 12:02:45"}, {"production_line": "LINE-4", "schedule_start": "2020-07-01
14:00:00", "actually_start": "2020-07-01 14:05:25", "schedule_end": "2020-07-01
18:00:00", "actually_end": "2020-07-01 19:54:21"}], "manhours": {"total": 8,
"detail": [{"type": 1, "manhours": 4}, {"type": 2, "manhours": 4}]}}}'
```

2. 订阅所有员工工号

```
topics/manhours/employee/#
```

订阅后只要有员工的工时被统计出来就会接收到该员工的工时信息。