

# 电动自行车

## 1.emqx订阅相关

### 1.1 存储信息

订阅名 show1 和 show2

show1控制第一辆

show2控制第二辆

现在有两小车

\_id分别为 64be1c4fd6ac26e2ca6409ce 64be1c79d6ac26e2ca6409cf

```
{
  "status": "ok",
  "data": [
    {
      "_id": "64be1c4fd6ac26e2ca6409ce",
      "data": "2023-7-26T12:12:12",
      "GPS": "(118.3E,44,6N)",
      "RFID": "12345678",
      "V1": 100,
      "V2": 50,
      "I": 100,
      "T": 100,
      "speed": 100
    }
  ]
}
```

单位分别为V, A, S, km/h

### 1.2控制硬件

订阅名 cont1 和 cont2

```

{
  "status": "ok",
  "data": [
    {
      "_id": "64be1c4fd6ac26e2ca6409ce",
      "openswitch": "0/1",
      "opentrumpet": "0/1"
    }
  ]
}

```

分别控制电动车开关,控制喇叭开关

后端会一直给cont1和cont2订阅发送

```

{
  "status": "ok",
  "data": "2023-7-26T12:12:12"
};

```

## 2.路由相关

路由前缀 http:127.0.0.1:8008/stu/v1

成功的status都是200, 失败都是500。

### 2.1失败消息统一格式

```

const sendErrorDev = (err, res) => {
  res.status(err.statusCode).json({
    code: err.statusCode,

    //1) 错误信息
    message: err.message,

    //2) 判断错误来自哪里
    status: err.status,

    //3) 判断是否是代码错误
    isOperational: err.isOperational,

    //4) 错误栈信息
    stack: err.stack
  });
};

```

## 2.2登录路由 /login

请求响应的数据类型: application/json

请求类型: post

request:

```
{
  "username": "admin",
  "password": "123456"
}
```

reponse

```
res.status(200).json({
  code: 200,
  msg: 'login is success'
});
```

## 2.2获取数据库信息 /data

get请求获取数据库信息

请求URL: /data?msg=User(可以是任何表名)

```
res.status(200).json({
  code: 200,
  msg: 'success',
  result
});
```

现在数据库有两个表User和Bike

这是Bike

```
{
  "code": 200,
  "msg": "success",
  "result": [
    {
      "_id": "64bf73e313ed8f53e88371d8",
      "GPS": "(118.3E,44,6N)",
      "RFID": "12345678",
      "V1": 100,
      "V2": 50,
      "I": 100,
      "T": 100,
      "speed": 30
    },
    {
      "_id": "64bf741213ed8f53e88371d9",
      "GPS": "(118.3E,44,6N)",
      "RFID": "12345678",
      "V1": 27.5,
      "V2": 20,
      "I": 10,
      "T": 30,
      "speed": 30
    }
  ]
}
```

这是User

```
{
  "code": 200,
  "msg": "success",
  "result": [
    {
      "_id": "64b92d42ee1e2ea7d758084a",
      "username": "lz"
    },
    {
      "_id": "64b92ea161f88a469825cd25",
      "username": "ly",
      "__v": 0
    },
    {
      "_id": "64b932b29048f8572851403a",
      "username": "george",
      "__v": 0
    },
    {
      "_id": "64be0ed4574f7734ef5af55a",
      "username": "admin"
    }
  ]
}
```