



MMPLS

we are hotpoor full stack developers

MMPLoS



More APIs

Realtime

Platform?

Code on Web

DAT

WeChat

JSSDK

A

Personal tool

More APIs

DAT

Realtime

More APIs

WeChat

JSSDK

Platform?

Personal tool

More APIs DAT
A Platfom?

Realtime

Code on Web

Personal tool

WeChat
JSSDK

More APIs

Code on Web

DAT

WeChat

WeChat Official Accounts

JSSDK

Platform?

Realtime

Personal tool

MMPLoS



Realtime

More APIs

Code on Web

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Platform?

WeChat
JSSDK

Personal tool

MMPLoS



More APIs

DAT

Personal tool

A

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Code on Web

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More APIs

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Personal Tool

Platform?

WeChat

JSSDK

Code on Web

MMPL^{OS}



IT大咖说
知识分享平台

Code on Web

More APIs

DAT

DEMO^A

Realtime

Talk is cheap, show me the code.

Platform?

WeChat JSSDK

Personal tool

mysql

web

relay

core

web

relay

relay

web

web

web

web

Code on Web

More APIs

DAT

单实例化通道

Realtime

new WebSocket

Platform 2

仅创建一个，并通过后端支持

WeChat JSSDK

Personal tool

MMPL^{OW}S



IT大咖说
知识分享平台

Code on Web

More APIs

DAT

微信小程序

Realtime

这是合理的

Platform?

https和wss都要用起来!

WeChat JSSDK

Personal tool

```
class WebSocketHandler(WebSocket):
```

```
    clients = set()
    h_clients = {}
```

```
    @staticmethod
```

```
    def join_more_rooms(self, message):
```

```
        info = json_decode(message)
```

```
        if len(info) == 4:
```

```
            if info[0] == "JOINMOREROOMS":
```

```
                for aim_id in info[3]:
```

```
                    h_clients_base = set()
```

```
                    h_clients_now = WebSocketHandler.h_clients.get(aim_id, [])
```

```
                    h_clients_base = h_clients_base | set(h_clients_now)
```

```
                    h_clients_base.add(self)
```

```
                    WebSocketHandler.h_clients[aim_id] = h_clients_base
```

```
                self.aim_ids = self.aim_ids | set(info[3])
```

```
    @staticmethod
```

```
    def send_to_all(message):
```

```
        info = json_decode(message)
```

```
        if len(info) == 3:
```

```
            for c in WebSocketHandler.h_clients.get(info[2], []):
```

```
                c.write_message(message)
```

```
    def open(self):
```

```
        self.aim_id = self.get_argument("aim_id", "")
```

```
def open(self):
    self.aim_id = self.get_argument("aim_id","")
    self.aim_ids = set([self.aim_id])
    h_clients_base = set()
    h_clients_now = WebSocketHandler.h_clients.get(self.aim_id,[])
    h_clients_base = h_clients_base | set(h_clients_now)
    h_clients_base.add(self)
    WebSocketHandler.h_clients[self.aim_id] = h_clients_base
    WebSocketHandler.clients.add(self)

def on_message(self, message):
    message_check = json_decode(message)
    if len(message_check) == 3:
        WebSocketHandler.send_to_all(message)
    elif len(message_check) == 4:
        WebSocketHandler.join_more_rooms(self, message)

def on_close(self):
    for aim_id in self.aim_ids:
        h_clients_base = set()
        h_clients_now = WebSocketHandler.h_clients.get(aim_id,[])
        h_clients_base = h_clients_base | set(h_clients_now)
        h_clients_base.remove(self)
        if len(h_clients_base) == 0:
            WebSocketHandler.h_clients.pop(aim_id)
        else:
            WebSocketHandler.h_clients[aim_id] = h_clients_base
            msg = ["LEAVE",{"content":str(id(self)) + 'has left room:'+aim_id},aim_id]
            msg = json_encode(msg);
            WebSocketHandler.send_to_all(msg)
    WebSocketHandler.clients.remove(self)
```

Code on Web

More APIs

DAT

协议规则数组化

Realtime

[XXX, XXX, {}, ...]

Platform

更早与友商们进行互动与串联

WeChat JSSDK

Personal tool

Code on Web

More APIs

DAT

区块链给的建议

Realtime

联盟链

Platform?

给予更多API去链接业务

WeChat JSSDK

Personal tool

Code on Web

More APIs

DAT

人工智能^A

Realtime

More REST API

Platform? 需要更多通知 notification WeChat JSSDK

Personal tool

< 返回 MMPLUS | 夏力维の留言板



夏力维の留言板

ss voice

comment_target: 95d1cc3ebdef496f82829d8
c620cbd43_9vrp6z
message name: *****
result: *****



16"

很高兴来到南京并且在这里进行个演讲，而演讲中的东西将包含我们的技术，所，面对的未来场景并且去找寻机会，
百度语音翻译: It is a great pleasure to be here in Nanjing and to give a speech here, and the things in the speech will include our technology, the future scenario, and the opportunity to look for it,



ibm invoke

weixin pay



发消息...



Code on Web

More APIs

DAT

A

Audio

Realtime

baidu

Platform?

REST API

WeChat JSSDK

Personal tool

```
# 微信语音上传转码、持久化和转文字方案，针对固定用户语音配置条件，以规避未来可能遭遇的问题
(r"/api/audio/weixin_upload", AudioWeixinUploadAPIHandler),
(r"/api/audio/weixin_upload_notify", AudioWeixinUploadNotifyAPIHandler),
(r"/api/audio/baidu_yuyin_notify", AudioBaiduYuyinNotify),
```

Code on Web

More APIs

DAT

技术时代的迁移

Realtime

查阅、订阅、搜索、推送、特征性平衡

也许每一个人的云服务会增长

Platform

Chat JSSDK

Personal tool

Code on Web

More APIs

DAT

WS和Socket混用

Realtime

Python is great with *function set()*

兼容IoT的存在，以及需要的支持

Personal tool

web.py

```
75
76 class TCPConnection(object):
77     tcpclients = set()
78     def __init__(self, stream, address):
79         TCPConnection.tcpclients.add(self)
80         self._stream = stream
81         self._address = address
82         self._stream.set_close_callback(self.on_close)
83         self.read_message()
84         print "A new user has entered the chat room.", address
85
86     @tornado.gen.coroutine
87     def post_mmplus(self, data):
88         print "___"
89         print data
90         http_client = tornado.httpclient.AsyncHTTPClient()
91         url = "http://www.hotpoor.org/api/comment/submit_data"
92         headers = {"Content-type": "application/x-www-form-urlencoded", "Accept": "text/plain"}
93         params = {
94             "user_id": "0cd8429c1da249b6935d7eef72d7fc0b",
95             "aim_id": "0cd8429c1da249b6935d7eef72d7fc0b",
96             "app": "hotpoor",
97             "content": data,
98         }
99         body = urllib.urlencode(params)
100         request = tornado.httpclient.HTTPRequest(
101             url = url,
102             method = "POST",
103             body = body,
104             headers = headers)
105         response = yield http_client.fetch(request)
106         print response.body
107     def read_message(self):
108         self._stream.read_until('\n', self.broadcast_messages)
109
110     def broadcast_messages(self, data):
111         print "___"
112         print "User said:", data[:-1], self._address
113         print data
114         self.post_mmplus(data)
115         # for tcpconn in TCPConnection.tcpclients:
116         #     tcpconn.send_message(data)
117         self.read_message()
118
119     def send_message(self, data):
120         self._stream.write(data)
121
122     def on_close(self):
123         print "A user has left the chat room.", self._address
124         TCPConnection.tcpclients.remove(self)
125
126 class TCPHandler(TCPConnection):
```

我是夏力维

人工智能时代

语音识别 图像识别 人脸识别

自然语言 无人驾驶



MMPLoS



IT大咖说
知识分享平台

Code on Web

More APIs

DAT

700k+ users

Realtime

36+ partners

Platform? (small CO. + individual)

WeChat JSSDK

Personal tool

Code on Web

More APIs

DAT

^A
if big guy needs

Realtime

let it invoke & wait for achievement

Platform?

WeChat JSSDK

Personal tool

Code on Web

More APIs

Platform?

your own data

Realtime

manage them, please

DAT

Personal tool

A

WeChat JSSDK



MMPL**S**

we are hotpoor full stack developers

Bangfer GO!!!

END