

FOOF Background Service

FOOF Background Service

Version

Characteristics

Run docker

Warning

SQL table fields

users

items

favorites

chats

Interface to frond end.

Test page

Users

public query

me

published

finished

login

register

reset password

require verify code (phone number)

upload avatar

modify

require verify code (email)

verify code (mail)

Items

define of sold

query

add

delete

upload image

modify

trade

Favorites

query

add

delete

Message

send message

fetch new message

fetch all message

trade

delete single request

delete all request

order

reset

suggest structure of message

Search

Version

- server version: v7.1.3A
- doc version: v7.0.2 alpha
- updated: 2019/09/10 16:56
- author: Hanyuu Furude

Characteristics

- Docker
- Nginx
- WebPack
- koa
- Sequelize
- jwt

Run docker

- listening port: 4000

```
1 docker run --network host -d -v [locationOfAvatarOnPhysicsMachine]:  
  [locationOfAvatarOnContainer] hanyuufurude/foofserver:v[x]
```

- e.g.

```
1 docker run --network host -d -v /home/.../avatar:/foof/avatar  
  hanyuufurude/foofserver:v3
```

Warning

1. If you meet Exception like this

Error: Client does not support authentication protocol requested by server; consider upgrading MySQL client

You are suggested to change the type of your password, please typing like this:

```
1 alter user 'USER'@'localhost' identified with mysql_native_password by  
  'PASSWORD'  
2 flush privileges;
```

2. If you try to pack the back end your self, you may meet error like this:

require is not a function

You are suggest to stop the use of the 'gently', and we suggest you can add a config in your **webpack.config.ts** to resolve the error.

```
1 module.exports = {  
2   plugins: [  
3     new webpack.DefinePlugin({ "global.GENTLY": false })  
4   ],  
5 };
```

SQL table fields

users

1	+-----+-----+-----+-----+-----+-----+-----+						
2	Field	Type	Null	Key	Default	Extra	
3	+-----+-----+-----+-----+-----+-----+-----+						
4	uuid	int(11)	NO	PRI	NULL	auto_increment	
5	password	varchar(255)	NO		NULL		
6	username	varchar(255)	NO		NULL		
7	phonenumber	varchar(255)	NO		NULL		
8	idcard	varchar(255)	NO		NULL		
9	studentid	int(11)	NO		NULL		
10	address	varchar(255)	NO		NULL		
11	avatarurl	varchar(255)	NO		NULL		
12	verified	int(11)	NO		NULL		
13	score	int(11)	NO		NULL		
14	info	varchar(255)	NO		NULL		
15	+-----+-----+-----+-----+-----+-----+-----+						

items

1	+-----+-----+-----+-----+-----+-----+-----+						
2	Field	Type	Null	Key	Default	Extra	
3	+-----+-----+-----+-----+-----+-----+-----+						
4	itemid	int(11)	NO	PRI	NULL	auto_increment	
5	uuid	int(11)	NO		NULL		
6	title	varchar(255)	NO		NULL		
7	type	int(11)	NO		NULL		
8	price	double	NO		NULL		
9	imgurl	varchar(255)	NO		NULL		
10	depreciatione	int(11)	NO		NULL		
11	note	varchar(255)	NO		NULL		
12	sold	int(11)	NO		NULL		
13	to	int(11)	YES		NULL		
14	+-----+-----+-----+-----+-----+-----+-----+						

favorites

1	+-----+-----+-----+-----+-----+-----+-----+						
2	Field	Type	Null	Key	Default	Extra	
3	+-----+-----+-----+-----+-----+-----+-----+						
4	id	int(11)	NO	PRI	NULL	auto_increment	
5	itemid	int(11)	NO		NULL		
6	uuid	int(11)	NO		NULL		
7	+-----+-----+-----+-----+-----+-----+-----+						
8	+-----+-----+-----+-----+-----+-----+-----+						

chats

1	+-----+-----+-----+-----+-----+-----+-----+						
2	Field	Type	Null	Key	Default	Extra	
3	+-----+-----+-----+-----+-----+-----+-----+						
4	id	int(11)	NO	PRI	NULL	auto_increment	
5	from	int(11)	NO		NULL		
6	to	int(11)	NO		NULL		
7	type	varchar(255)	NO		NULL		
8	data	varchar(255)	NO		NULL		
9	fetched	tinyint(1)	NO		NULL		
10	createdAt	datetime	NO		NULL		
11	updatedAt	datetime	NO		NULL		
12	+-----+-----+-----+-----+-----+-----+-----+						

Interface to frond end.

Test page

- china: hanyuu.top:8080
- international: inari.ml:8080

Users

public query

```
1 | GET /user/[uuid]
```

```
1 | None
```

```
1 | None
```

```
1 | //success
2 | {
3 |   "uuid": 1,
4 |   "username": "新手咸鱼人员",
5 |   "avatarurl": "image\\avatar\\default.jpg",
6 |   "verified": 0,
7 |   "score": 10,
8 |   "info": "这家伙很懒，什么都没有写>^<",
9 |   "status": "success"
10 | }
```

me

```
1 | POST /user/me
```

```
1 | Content-Type:application/x-www-form-urlencoded
```

```
1 {"表单数据":  
  {"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dwIkiJoxLCJnZW5lcmF0ZSI6MTU2NzU5NjMwMjIwMCwiaWF0IjoxNTY3NTk2MzAyfQ.i jUssByf1HjPqWOMMcJMvqroJCaS1PKOBXUYYaS6dYU"}}}
```

```
1 //success  
2 {  
3   "uuid": 1,  
4   "username": "新手咸鱼人员",  
5   "phonenumner": "1",  
6   "idcard": "",  
7   "studentid": "0",  
8   "address": "",  
9   "avatarurl": "image\\avatar\\default.jpg",  
10  "verified": 0,  
11  "score": 10,  
12  "info": "这家伙很懒，什么都没有写>^<",  
13  "status": "success"  
14 }  
15 //wrong token  
16 403 Forbidden
```

published

```
1 POST /user/published
```

```
1 Content-Type:application/x-www-form-urlencoded
```

```
1 {"表单数据":{"uuid":"1"}}
```

```
1 [  
2   {  
3     "itemid": 5,  
4     "uuid": 1,  
5     "title": "未命名商品1",  
6     "type": 1,  
7     "price": 1.23,  
8     "imgurl": "[      \"image\\\\\\\\item\\\\\\\\0.35113526938054584.jpg\",  
9     \"image\\\\\\\\item\\\\\\\\0.5106340873338395.jpg\",  
10    \"image\\\\\\\\item\\\\\\\\0.37461623290026935.jpg\",  
11    \"image\\\\\\\\item\\\\\\\\0.887643214342515.jpg\"    ]",  
12    "depreciation": 99,  
13    "note": "然而并没什么描述",  
14    "sold": -1,  
15    "to": null  
16  },  
17  {  
18    "itemid": 6,  
19    "uuid": 1,  
20    "title": "未命名商品2",  
21    "type": 2,  
22    "price": 3.99,  
23  }  
24 ]
```

```

20     "imgurl": "[      \"image\\\\\\\\item\\\\\\\\0.35113526938054584.jpg\",
    \"image\\\\\\\\item\\\\\\\\0.5106340873338395.jpg\",
    \"image\\\\\\\\item\\\\\\\\0.37461623290026935.jpg\",
    \"image\\\\\\\\item\\\\\\\\0.887643214342515.jpg\"    ]",
21     "depreciation": 99,
22     "note": "这里也没什么描述",
23     "sold": -2,
24     "to": null
25   }
26 ]

```

finished

```
1 | POST /user/finished
```

```
1 | Content-Type:application/x-www-form-urlencoded
```

```

1  {"表单数据":
   {"token":"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dWlkIjoxLCJnZW51cmF0ZSI6MTU2NzU5NjMwMjIwMCwiawF0IjoxNTY3NTk2MzAyfQ.ijUssByfIHjPqWOMMcJMVqroJCas1PKOBXUY
   YaS6dYU"}}

```

```

1  [
2    {
3      "itemid": 3,
4      "uuid": 1,
5      "title": "432",
6      "type": 798,
7      "price": 987,
8      "imgurl": "987",
9      "depreciation": 798,
10     "note": "987",
11     "sold": -2,
12     "to": 1
13   },
14   {
15     "itemid": 4,
16     "uuid": 1,
17     "title": "432",
18     "type": 798,
19     "price": 987,
20     "imgurl": "987",
21     "depreciation": 798,
22     "note": "987",
23     "sold": -2,
24     "to": 1
25   }
26 ]

```

login

```
1 | POST /user/login
```

```
1 | Content-Type:application/x-www-form-urlencoded
```

```
1 | {"表单数据":{"phonenumber":"1","password":"1"}}
```

```
1  //success
2  {
3    "status": "success",
4    "info": {
5      "uuid": 1,
6      "username": "新手咸鱼人员",
7      "phonenumber": "1",
8      "idcard": "",
9      "studentid": "0",
10     "address": "",
11     "avatarurl": "image\\avatar\\default.jpg",
12     "verified": 0,
13     "score": 10,
14     "info": "这家伙很懒，什么都没有写>^<"
15   },
16   "token":
17     "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dWlkIjoxLCJnZW51cmF0ZSI6MTU2NzU5NzAyOTA0MywiaWF0IjoxNTY3NTk3MDI5fQ.fx-bxf7P55BU50uvbGWTbzyTFZ-AH2JLpGLuVC58ge0"
17 }
18 // password incorrect
19 {
20   "status": "failure",
21   "info": "password incorrect"
22 }
```

register

```
1 | POST /user/register
```

```
1 | Content-Type:application/x-www-form-urlencoded
```

```
1 | {"表单数据":{"phonenumber":"2","verifycode":"2","password":""}}
```

```
1  // success
2  {"status":"success"}
3  // phone number already token
4  {"status":"failure","info":"phone number already token"}
5  // invaild request
6  {"status":"failure","info":"invaild request"}
```

reset password

```
1 | POST /user/reset
```

```
1 | Content-Type:application/x-www-form-urlencoded
```

```
1 | {"表单数据":{"phonenummer":"1111","verifycode":"2345","password":"1"}}
```

```
1 | // success
2 | {"status":"success"}
3 | // invaild verify code
4 | {
5 |   "status":"failure",
6 |   "info":"bad verify code"
7 | }
8 | // invaild request
9 | {
10 |  "status":"failure",
11 |  "info":"invaild request"
12 | }
```

require verify code (phone number)

```
1 | POST /user/requirecode
```

```
1 | Content-Type:application/x-www-form-urlencoded
```

```
1 | {"表单数据":{"phonenummer":"1"}}
```

```
1 | //success
2 | {"status":"success"}
```

upload avatar

- the request size is no greater than 1mb

```
1 | POST /user/avatar (avatar's max size: 1mb)
```

```
1 | Content-Type:multipart/form-data
```

```
1 | -----644897516845
2 |
3 | Content-Disposition: form-data; name="token"
4 |
5 |
6 |
7 | eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dwIkiJoxLCJnZW51cmF0ZSI6MTU2NzI0NzkzMDk3MywiaWF0IjoxNTY3MjQ3OTMwfQ.cQxtqPF70kYPUovE1E115udo1CS54F6yOZxCbcc3mUM
8 |
9 | -----644897516845
10 |
11 | Content-Disposition: form-data; name="file"; filename="800px-
    %E5%8D%83%E6%81%8B%E4%B8%87%E8%8A%B1_%E8%8A%B3%E4%B9%83A10_%E5%BE%AE%E7%AC%9
    1.jpg"
12 |
13 | Content-Type: image/jpg
14 |
```



```
15  【文件载荷内容】
16  -----644897516845-----
```

```
1 //success
2 {
3   "status": "success",
4   "imgurl": [
5     "image\\item\\0.37298177116166853.jpg",
6     "image\\item\\0.8804691995112837.jpg",
7     "image\\item\\0.1519560908440687.jpg",
8     "image\\item\\0.18944967144424818.jpg"
9   ]
10 }
11 //wrong token
12 403 Forbidden
```

modify

- this interface will accept the request whether the request contains password or not. if you don't want to change your password, please do not request this fields.
- however, you have to copy the value of the fields of other fields even you don't want to change those;

```
1 | POST /user/modify
```

```
1 | Const-Type:application/x-www-form-urlencoded
```

```
1  {"表单数据":
  {"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dWlkIjoxLCJpZ3Q9IjEwMDYwYy1lPWBl4QFyw9idh9QAAtjIIT0ehPB9IsdG
  U2NzI1NTA2MDEzNiwiawF0IjoxNTY3MjU1MDYwYy4tZW50IjoxLCJpZ3Q9IjEwMDYwYy1lPWBl4QFyw9idh9QAAtjIIT0ehPB9IsdG
  DZ183ki", "username": "wakamiyaEve", "password": "1111", "idcard": "1", "studentid":
  "2", "address": "M3c", "info": "no"}}
```

```
1 // success
2 {
3   "status": "success"
4 }
5 //wrong token
6 403 Forbidden
```

require verify code (email)

```
1 POST /user/mail/verify
```

```
1 Const-Type:application/x-www-form-urlencoded
```

```
1  {"表单数据":  
  {"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dWlkIjoxLCJpZ3Q9cmF0ZSI6MTU2NzYwNTM0ODY4ODswIawF0IjoxNTY3NjA1Mzg4fQ. jCF-T3w_Z_E9u6GnZJY2ofB0n4kjlXk3f9j14vJmg"} }
```

```
1 // success
2 {"status": "success"}
```

verify code (mail)

```
1 GET /user/mail/verify/:token
```

```
1 none
```

```
1 //success
2 {"status": "success"}
```

Items

define of sold

```
1 sold:
2 {
3     sale: 1,
4     sold: 2,
5     deleted :3,
6     want: -1,
7     got: -2,
8     deleted: -3,
9
10
11 }
```

query

```
1 GET /item/[itemid]
```

```
1 None
```

```
1 //success
2 {
3     "itemid": 1,
4     "uuid": 1,
5     "title": "432",
6     "type": 798,
7     "price": 987,
8     "imgurl": "image\\item\\1-1-0.jpg++image\\item\\1-1-1.jpg++image\\item\\1-
1-2.jpg++image\\item\\1-1-3.jpg++",
9     "depreciatione": 798,
10    "note": "987",
11    "sold": 2,
12    "to": null,
13    "status": "success"
14 }
15 //no item
```

```
16 | {"status":"none"}
```

add

```
1 | POST /item/add
```

```
1 | Content-Type:application/x-www-form-urlencoded
```

```
1 | {"表单数据":  
  {"token":"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dwIkiJoxLCJnZW51cmF0ZSI6MTU2NzU5NjMwMjIwMCwiawF0IjoXNTY3NTk2MzAyfQ.ijUssByflHjPqWOMMcJMvqroJCas1PKOBXUYYaS6dYU","title":"未命名商品1","type":"1","price":"1.23","depreciatione":"99","note":"然而并没什么描述","sold":"-1"}}
```

```
1 | //success  
2 | {  
3 |   "status": "success",  
4 |   "data": {  
5 |     "itemid": 15,  
6 |     "title": "1",  
7 |     "type": "1",  
8 |     "price": "1",  
9 |     "depreciatione": "1",  
10 |    "note": "1",  
11 |    "sold": "1",  
12 |    "uuid": 1,  
13 |    "imgurl": "./image/itemdefault.jpg",  
14 |    "to": 0  
15 |   }  
16 | }  
17 | //no item  
18 | {"status":"none"}  
19 | //wrong token  
20 | 403 Forbidden
```

delete

```
1 | POST /item/delete
```

```
1 | Content-Type:application/x-www-form-urlencoded
```

```
1 | {"表单数据":  
  {"token":"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dwIkiJoxLCJnZW51cmF0ZSI6MTU2NzU2NTYwODkzNCwiawF0IjoXNTY3NTY1NjA4fQ.J_END7-qSN7HyPmLpQXHcaBOylNvI960TSEgVg4X-9w","itemid":"1"}}
```

```
1 | //success  
2 | {"status":"success"}
```

upload image

- The name property of the file is arbitrary and the request size is no greater than 1mb

```
1 | POST /item/image
```

```
1 | Content-Type:multipart/form-data
```

```
1 |
2 | 请求载荷 (payload)
3 |
4 | -----5005412110300
5 |
6 | Content-Disposition: form-data; name="token"
7 |
8 |
9 |
10 | eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dwlkIjoxLCJnZW51cmF0ZSI6MTU2NzI0ODU
11 | 50TI40SwiaWF0IjoxNTY3MjQ4NTk5fQ.ezvX48rpjAAzd6Bwr3eFrSCnrQT_3SGoXID1NSWaa_8
12 | -----5005412110300
13 | Content-Disposition: form-data; name="itemid"
14 |
15 |
16 | 1
17 | -----5005412110300
18 |
19 | Content-Disposition: form-data; name="file0";
20 | filename="Hoshikawa_Hotaru.png"
21 |
22 | Content-Type: image/png
23 | 【文件载荷】
24 | -----5005412110300
25 |
26 | Content-Disposition: form-data; name="file1"; filename="23984.png"
27 |
28 | Content-Type: image/png
29 | 【文件载荷】
30 | -----5005412110300
31 |
32 | Content-Disposition: form-data; name="file2"; filename="24370.png"
33 |
34 | Content-Type: image/png
35 | 【文件载荷】
36 | -----5005412110300
37 |
38 | Content-Disposition: form-data; name="file3"; filename="53-098.png"
39 |
40 | Content-Type: image/png
41 | 【文件载荷】
42 | -----5005412110300
```

```
1 | // success
2 | {
3 |   "status": "success",
```

```

4   "imgurl": [
5       "image\\item\\1-1-0.jpg",
6       "image\\item\\1-1-1.jpg",
7       "image\\item\\1-1-2.jpg",
8       "image\\item\\1-1-3.jpg"
9   ]
10  }
11  // file too large
12  413 Request Entity Too Large
13  //wrong token
14  403 Forbidden

```

modify

```
1 | POST /item/modify
```

```
1 | Content-Type:multipart/form-data
```

```

1  {"表单数据":
   {"token":"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dWlkIjoxLCJnZW51cmF0ZSI6MTU2NzI1NTA2MDEzNiwiawF0IjoxNTY3MjU1MDYwfQ.-1oWPB14QFyw9idh9QAAtjIITTOehPB9isdgDZ183kI","itemid":"1","title":"小米充电宝","type":"2","price":"299.9","imgurl":{"+++\"imgurl\":+[++++\"image\\\\item\\\\0.21266930758871538.jpg\",++++\"image\\\\item\\\\0.4408016895777478.jpg\",++++\"image\\\\item\\\\0.7268863338186755.jpg\",++++\"image\\\\item\\\\0.7410747437739387.jpg\"+++]}","depreciatione":"98","note":"一块钱四个","sold":"-1"}}

```

```

1  // success
2  {"status":"success"}
3  //wrong token
4  403 Forbidden

```

trade

```
1 | POST /item/trade
```

```
1 | Content-Type:multipart/form-data
```

```

1  {"表单数据":
   {"token":"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dWlkIjoxLCJnZW51cmF0ZSI6MTU2NzU2NTYwODkzNCwiawF0IjoxNTY3NTY1NjA4fQ.J_END7-qsn7HyPmLpQXHcaBoy1NvI96OTSEgVg4X-9w","itemid":"1"}}

```

```
1 //success
2 {
3   "status":"success"
4 }
5 // not for trade
6 {
7   "status": "failure",
8   "info": "item not availabe for trade"
9 }
```

Favorites

query

```
1 POST /fav/query
```

```
1 Content-Type:application/x-www-form-urlencoded
```

```
1 {"表单数据":
  {"token":"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dwIkiIjoxLCJnZW51cmF0ZSI6MTU2NzU2NTYwODkzNCwiawF0IjoxNTY3NTY1NjA4fQ.J_END7-qsn7HyPmLpQXHcaBOy1NvI960TSEgv4X-9w"}}}
```

```
1 {
2   "status": "success",
3   "res": [
4     {
5       "id": 5,
6       "itemid": 3,
7       "uuid": 1
8     },
9     {
10      "id": 7,
11      "itemid": 1,
12      "uuid": 1
13    },
14    {
15      "id": 8,
16      "itemid": 2,
17      "uuid": 1
18    },
19    {
20      "id": 9,
21      "itemid": 3,
22      "uuid": 1
23    },
24    {
25      "id": 10,
26      "itemid": 4,
27      "uuid": 1
28    },
29    {
30      "id": 11,
```

```

31     "itemid": 5,
32     "uuid": 1
33 },
34 {
35     "id": 12,
36     "itemid": 6,
37     "uuid": 1
38 },
39 {
40     "id": 13,
41     "itemid": 7,
42     "uuid": 1
43 },
44 {
45     "id": 14,
46     "itemid": 8,
47     "uuid": 1
48 },
49 {
50     "id": 15,
51     "itemid": 9,
52     "uuid": 1
53 }
54 ]
55 }

```

add

- the field of data is a json string list of itemid that you wanna to add to your favorites.

```
1 POST /fav/add
```

```
1 Content-Type:application/x-www-form-urlencoded
```

```

1 {"表单数据":
  {"token":"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dWlkIjoxLCJnZW51cmF0ZSI6MTU2NzU5NjMwMjIwMCwiaWF0IjoxNTY3NTk2MzAyfQ.ijUssByf1HjPqWOMMcJMVqroJCas1PKOBXUY
  YaS6dYU","data":"[1,2,3]"}

```

```

1 //success
2 {
3     "status": "success"
4 }

```

delete

- the field of data is a json string list of itemid that you wanna to delete from your favorites.

```
1 POST /fav/delete
```

```
1 Content-Type:application/x-www-form-urlencoded
```

```
1 {"表单数据":  
  {"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dw1kIjoxLCJnZW51cmF0ZSI6MTU2NzU2NTYwODkzNCwiawF0IjoxNTY3NTY1NjA4fQ.J_END7-qSN7HyPmLpQXHcaBOy1NvI960TSEgVg4X-9w", "data": "[1,2,3]"}}
```

```
1 {  
2   "status": "success"  
3 }
```

Message

send message

```
1 POST /user/chat/push
```

```
1 Content-Type: application/x-www-form-urlencoded
```

```
1 {"表单数据":  
  {"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dw1kIjoxLCJnZW51cmF0ZSI6MTU2NzU2NTYwODkzNCwiawF0IjoxNTY3NTY1NjA4fQ.J_END7-qSN7HyPmLpQXHcaBOy1NvI960TSEgVg4X-9w", "to": "1", "type": "1", "data": "hi, +world."}}
```

```
1 //success  
2 {"status": "success"}
```

fetch new message

- this interface will only return messages that have never been fetched.
- we suggest that you use this to check whether you have a new message or not.

```
1 POST /user/chat/fetchnew
```

```
1 The name property of the file is arbitrary and the request size is no greater than 2mb
```

```
1 {"表单数据":  
  {"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dw1kIjoxLCJnZW51cmF0ZSI6MTU2NzU2NTYwODkzNCwiawF0IjoxNTY3NTY1NjA4fQ.J_END7-qSN7HyPmLpQXHcaBOy1NvI960TSEgVg4X-9w"}}
```

```
1 {  
2   "status": "success",  
3   "data": [  
4     {  
5       "id": 2,  
6       "from": 1,  
7       "to": 1,  
8       "type": 1,
```



```

9      "data": "hi, world.",
10     "fetch": false,
11     "createdAt": "2019-09-04T14:29:05.000Z",
12     "updatedAt": "2019-09-04T14:29:05.000Z"
13   }
14 ]
15 }

```

fetch all message

- if you lost your message or want to sync your message record, it's a good choice

```
1 | POST /user/chat/fetchall
```

```
1 | Content-Type: application/x-www-form-urlencoded
```

```

1  {"表单数据":
   {"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dWlkIjoxLCJnZW51cmF0ZSI6MTU2NzU2NTYwODkzNCwiawF0IjoxNTY3NTY1NjA4fQ.J_END7-qSN7HyPmLpQXHcaBOy1NvI960TSEgVg4X-9w"}}

```

```

1  {
2    "status": "success",
3    "data": [
4      {
5        "id": 1,
6        "from": 1,
7        "to": 1,
8        "type": 1,
9        "data": "hi",
10       "fetch": true,
11       "createdAt": "2019-09-04T07:17:22.000Z",
12       "updatedAt": "2019-09-04T07:37:56.000Z"
13     },
14     {
15       "id": 2,
16       "from": 1,
17       "to": 1,
18       "type": 1,
19       "data": "hi, world.",
20       "fetch": true,
21       "createdAt": "2019-09-04T14:29:05.000Z",
22       "updatedAt": "2019-09-04T14:36:32.000Z"
23     }
24   ]
25 }

```

trade

delete single request

```
1 | POST /user/want/delete
```

```
1 | Content-Type: application/x-www-form-urlencoded
```

```
1 | {"表单数据":  
  {"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dwIkiJoxLCJnZW51cmF0ZSI6MTU2ODA4NDgyNTY4NywiawF0IjoxNTY4MDg0ODI1fQ.t03FJusJxxgaI8qChGInEH9goUDW7S6Io_p1LsjGvf8", "id": "2"}}
```

```
1 | //success  
2 | { status: "success" }  
3 | // Unauthorized operations  
4 | {  
5 |   "status": "failure",  
6 |   "info": "Insufficient permissions"  
7 | }
```

delete all request

```
1 | POST /user/want/deleteall
```

```
1 | Content-Type: application/x-www-form-urlencoded
```

```
1 | {"表单数据":  
  {"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dwIkiJoxLCJnZW51cmF0ZSI6MTU2NzU2NTYwODkzNCwiawF0IjoxNTY3NTY1NjA4fQ.J_END7-qSN7HyPmLpQXHcaBOylNvI960TSEgVg4X-9w", "itemid": "2"}}
```

```
1 | //success  
2 | { status: "success" }  
3 | // Unauthorized operations  
4 | {  
5 |   "status": "failure",  
6 |   "info": "Insufficient permissions"  
7 | }
```

order

```
1 | POST /item/order
```

```
1 | Content-Type: application/x-www-form-urlencoded
```

```
1 | {"表单数据":  
  {"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dwIkiJoxLCJnZW51cmF0ZSI6MTU2NzU2NTYwODkzNCwiawF0IjoxNTY3NTY1NjA4fQ.J_END7-qSN7HyPmLpQXHcaBOylNvI960TSEgVg4X-9w", "to": "12", "itemid": "3"}}
```

```
1 //success
2 { status: "success" }
3 // not for trade
4 {
5   "status": "failure",
6   "info": "not for trade"
7 }
```

reset

```
1 POST /item/reset
```

```
1 Content-Type: application/x-www-form-urlencoded
```

```
1 {"表单数据":
  {"token":"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1dwIjoiLCJnZW5lcmF0ZSI6MTU2ODA4NDgyNTY4NywiawF0IjoxNTY4MDg0ODI1fQ.to3FJusJxxgaI8qChGInEH9goUDW7S6Io_p1LsjGvf8","itemid":"4"}}
```

```
1 //success
2 { status: "success" }
```

suggest structure of message

example message

```
1 {
2   "status":"success",
3   "data":[
4     {
5       "id":3,
6       "from":1,
7       "to":12,
8       "type":1,
9       "data":"hi",
10      "fetched":false,
11      "createdAt":"2019-09-09T15:53:00.000Z",
12      "updatedAt":"2019-09-09T15:53:00.000Z"
```

```
13     }
14   ]
15 }
```

- id
 - id is the id of the message, it's just a globally unique identifier of the message, you can ignore it in most situations.
- from & to
 - all information about sender and receiver should be fetched by their uuid (from and to) . You are not suggested to carry any extra information about any role for that may out dated.
- type
 - 0: system information
 - data =
 - data =
 - 1: chat information
- data
 - data is the body of the message, it has extra conventions in front end, it will be mentioned below.
- fetched
 - whether this piece of message had been picked by receiver.
- CreatedAt & updatedAt
 - the timestamp of the record (when the user post the piece of message)

Search

```
1 POST /item/search
```

```
1 Content-Type: application/x-www-form-urlencoded
```

```
1 //method:item
2 {"表单数据":{"method":"good","query":"jd"}}
3 //method:user
4 {"表单数据":{"method":"user","query":"jd"}}
```

```
1 //success
2 {
3   "took":7,
4   "timed_out":false,
5   "_shards":
6   {
7     "total":5,
8     "successful":5,
9     "skipped":0,
10    "failed":0
11  },
12  "hits":
13  {
```

```
14     "total":0,  
15     "max_score":null,  
16     "hits":[  
17     ]  
18   }  
19 }  
20 //invalid request  
21 {  
22   "status": "failure",  
23   "info": "invalid request"  
24 }
```