
Python Ulord-platform SDK API Documentation

Release 0.0.1

Ulord-PuJi

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Contents:

| | | |
|----------|--|-----------|
| 1 | Overview | 1 |
| 1.1 | Including | 1 |
| 1.2 | Featured Projects | 1 |
| 1.3 | TODO list | 1 |
| 1.4 | Contribute | 2 |
| 2 | What'snew | 3 |
| 3 | Install | 5 |
| 4 | Example | 7 |
| 4.1 | Get development permissions | 7 |
| 4.2 | Init | 7 |
| 4.3 | Config | 7 |
| 4.4 | Create your required interface | 8 |
| 5 | ulordapi | 9 |
| 5.1 | udfs | 9 |
| 5.2 | config | 11 |
| 5.3 | daemonCLI | 11 |
| 5.4 | errcode | 11 |
| 5.5 | manage | 11 |
| 5.6 | up | 14 |
| 5.7 | user | 17 |
| 5.8 | utils | 21 |
| 5.9 | version | 24 |
| 5.10 | webServer | 24 |
| 6 | About py-ulord-api | 27 |
| 7 | Indices and tables | 29 |
| | Python Module Index | 31 |

CHAPTER 1

Overview

Ulord-platform HTTP Client Library

Before reading the document you should pay attention to the following:

Important: The legacy py-ulord-api package/module will only work for Ulord-platform 0.0.1 and Python 2.7.

Note: This library constantly has to change to stay compatible with the Ulord-platform HTTP API. Currently, this library is tested against Ulord-platform v0.0.1. You may experience compatibility issues when attempting to use it with other versions of Ulord-platform.

1.1 Including

This package has three functions,including cli, py-api and web-API.

py-api is a python package.It support most functions.**Suggest you to use this**.

Cli is a simple package for python api.

Web-API is also a simple package for python package.

1.2 Featured Projects

waiting...

1.3 TODO list

- [x] add TODO list
- [] some docs
- [] support python3

- [] more friendly expression
- [] add multi-threading download
- [] add unit test
- [] docker environment

1.4 Contribute

1.4.1 Bug reports

You can submit bug reports using the [GitHub](#) issue tracker.

1.4.2 Pull requests

Pull requests are welcome. Before submitting a new pull request, please waiting...

1.4.3 Want to read this repository?

Some places to get you started. (WIP)

Senior programmer Main file: [ulordapi/user.py](#)

Junior Programmer Main file: [ulordapi/user.py](#)

CLI Commands: [ulordapi/daemonCLI.py](#)

Web Server: [ulordapi/webServer.py](#)

CHAPTER 2

What'snew

waiting...

CHAPTER 3

Install

> *import*: haven't completed!

Install with pip(not completed!):

```
$ pip install ulordapi
```

Or you can use this repository to set up

```
git clone https://github.com/UlordChain/py-ulord-api.git
cd py-ulord-api
python setup.py install
```


CHAPTER 4

Example

This is a tutorial that uses SDK to develop a blog demo.

4.1 Get development permissions

You should register on the ulord-platform. And then you need to create an application. You will get an appkey and a secret. These two things are important. You mustn't lose them.

4.2 Init

Create a role according to your ability using your appkey and secret. SDK has two roles. One is junior and the other is senior. Both of them have to be initialized using your appkey and secret.

Senior has basic API about UDFS and ulord-platform. UDFS is a distributed storage platform. Using it you can upload your resource and download easily. The API about ulord-platform packages for ulord-platform http interface.

Junior has all API of Senior. And it also has a basic database. You can use database whatever you want to use. Default is sqlite. It achieves base on the flask-sqlalchemy. And you can build your own database structure.

```
from ulordapi.user import Junior
junior = Junior(appkey="5d42b27e581c11e88b12f48e3889c8ab", secret=
    "5d42b27f581c11e8bf63f48e3889c8ab")
```

4.3 Config

You should make your own config. Reading config module and create your own config.

```
blog_config = {
    'baseconfig':{
        'config_file':'E:\ulord\ulord-blog-demo\config'
    },
    'logconfig':{
        'log_file_path': 'E:\ulord\ulord-blog-demo\blogdemo.log'
    }
}
junior.config_edit(blog_config)
```

4.4 Create your required interface

Example regist(This demo is using flask):

```
@app.route('/user/regist',methods=['POST'])
def regist():
    """
    user regist

    :return: user token
    """
    username = request.json.get('username')
    password = request.json.get('password')
    cellphone = request.json.get('cellphone')
    email = request.json.get('email')
    if username is None or password is None:
        # missing arguments
        return jsonify(return_result(60100))
    args = junior.decrypt([username, password, cellphone, email])
    if args:
        result = junior.user_regist(username=args[0],password=args[1],
        ↵cellphone=args[2],email=args[3])
        return jsonify(result)
    else:
        return jsonify(return_result(60100))
```

CHAPTER 5

ulordapi

5.1 udfs

5.1.1 ulordapi.udfs

udfs

class ulordapi.udfs.udfs.**Udfs**

udfs class,including some operations about daemon program

get_pid()

get daemon pid

Returns daemon pid

get_udfs()

get udfs path according to the os

Returns udfs path

modify_config()

modify udfs config

start (daemon=None)

start udfs.if daemon is true, the udfs is a daemon,else the udfs is starting the current thread.

Parameters **daemon** (*bool*) – if wait

start_command (cmd)

start external command

Parameters **cmd** (*str/list*) – shell command

Returns popen

start_init()

init udfs, sleep 3 microsecond to wait the command finished.

```
stop()
    kill the udfs daemon

class ulordapi.udfs.udfs.UdfsHelper(host='127.0.0.1', port='5001')
    download and upload files from Ulord

cat(udfshash)
    Retrieves the contents of a file identified by hash. :param udfshash: udfs hash :type udfshash:str :return: str(File contents)

downloadfile(localfile)
    query the localfile from DB and then download from the udfs

    Parameters localfile(str) – a file path

    Returns True or False

downloadhash(filehash,filepath=None, Debug=False)
    download file from the UDFS according to the udfs hash

    Parameters

        • filehash(str) – file udfs hash

        • filepath(str) – the path to save the file

        • Debug(bool) – if Debug print the cost time

    Returns True or False

list(filehash)
    list the udfshash chunks

    Parameters filehash(str) – a udfs hash

    Returns a list chunks of the udfs hash

resumableDownload(filehash, filename=None)
    resumable download

    Parameters

        • filehash(str) – file UDFS hash

        • filename(str) – file path to save the file

    Returns True or False

update(host='127.0.0.1', port='5001')
    update udfs dameon connection

    Parameters

        • host(str) – udfs daemon host

        • port(str/int) – udfs daemon port

upload_file(local_file)
    upload the file to the udfs

    Parameters local_file(str) – a local file path

    Returns Hash or False

upload_stream(stream)
    upload the stream to the ulord

    Parameters stream(unicode) – stream data
```

Returns

5.2 config

```
class ulordapi.config.Config(*args, **kwargs)
    Bases: dict

    config class.Based on the dict.Update key-value,including subdict.

    edit (data)
    read (init=True)
        read config from config file and update config.

        Parameters init (bool) – check if the config is first save.Default is True, will save the config file.

    save ()
        save config to the config file.Just for the config,not support for it's sub config.
```

5.3 daemonCLI

```
class ulordapi.daemonCLI.client

ulordapi.daemonCLI.edit_config(*args, **kwargs)
ulordapi.daemonCLI.formatResult(func)
ulordapi.daemonCLI.main()
ulordapi.daemonCLI.show_config(*args, **kwargs)
```

5.4 errcode

```
ulordapi.errcode.return_result (errcode=0, reason=None, result=None)
    update errcode,reason,result and then return
```

Parameters

- **errcode** (int) – errcode
- **reason** (str/dict) – reason, change it to the dict and update original reason
- **result** (str/dict) – result, change it to the dict and update original result

Returns errcode result

5.5 manage

```
class ulordapi.manage.Ads(**kwargs)
    Bases: ulordapi.manage.Resource

    Advertisement.Viewer will get a few ulord from the author when they view it.
```

UPID

```
amount
body
claimID
date
description
id
resource_type
tags
title
userid
views

class ulordapi.manage.Content(**kwargs)
Bases: ulordapi.manage.Resource

Content, viewer need to pay a few ulord to view.

UPID
amount
body
claimID
date
description
id
resource
resource_type
tags
title
userid
views

class ulordapi.manage.Resource(**kwargs)
Bases: sqlalchemy.ext.declarative.api.Model

Resource table: create resource table

UPID
amount
body
claimID
date
description
id
```

```
resource
resource_type
tags
title
userid
views

class ulordapi.manage.Tag(**kwargs)
Bases: sqlalchemy.ext.declarative.api.Model
tag table

id
pre1
pre2
resource
tagname

class ulordapi.manage.User(**kwargs)
Bases: sqlalchemy.ext.declarative.api.Model
User table: create user database.

activity
balance
boughts
cellphone
email

hash_password(password)
    Hash user's password and save hash result.

    Parameters password(str) – user's password

id
password_hash
pay_password
timestamp
token
username

verify_password(password)
    verify password

    Parameters password(str) – user's password

    Returns True or False.

wallet

ulordapi.manage.create()
Create database.
```

5.6 up

```
class ulordapi.up.UlordHelper(appkey=None, ulord_secret=None)
Bases: object

a helper to request the ulord paltform

calculate_sign(dt=None)
    encrypt the request data according to the secret

Parameters dt (dict) – data need to be encrypted, Default is None

Returns Usign

checkisbought(payer, claim_ids)
    query the personal balance from the ulord platform

Parameters

    • payer (str) – payer wallet name

    • claim_ids (list) – resource claim id

Returns errcode. You can query from the errcode dict.

delete(id, password)
    delete resource on the ulord-platform

Parameters

    • id (int) – resource ulord-platform DB ID

    • password (str) – user wallet password

Returns errcode. You can query from the errcode dict.

get(url)
    get from the ulord-platform

Parameters url (str) – request's url

Returns return result. You can query the errcode.

paytouser(username)
    activity send some ulords to the user

Parameters username (str) – user wallet name

Returns errcode. You can query from the errcode dict.

post(url, data)
    post to the ulord-platform

Parameters

    • url (str) – request's url

    • data (dict) – post data

Returns return result. you can query the errcode

publish(data)
    publish data to the ulord platform

Parameters data (dict) – data needed to be published. Key includes author,title,tags,udfs_hash,price,content_type,despay_password
```

Returns errcode. You can query from the errcode dict.

queryBillingDetailByID (*claim_id*, *page*=1, *num*=10)
query all billing details according to the claimID

Parameters

- **claim_id** (*str*) – resource on the ulord-chain ID
- **page** (*int*) – which page of result do you want to view?Default is 1.
- **num** (*int*) – how many pieces of data of result do you want to view?Default is 10.

Returns errcode. You can query from the errcode dict.

queryStatisticsByID (*claim_ids*)
query resource statistics information by ID

Parameters **claim_ids** (*list*) – need to be query ID list.

Returns errcode. You can query from the errcode dict.

query_resourc_by_ID (*ids*)
query resource list according to the id list

Parameters **ids** (*list*) – need to be query id list

Returns errcode. You can query from the errcode dict.

querybalance (*payer*, *pay_password*)
query the personal balance from the ulord platform

Parameters

- **payer** (*str*) – payer wallet name
- **pay_password** (*str*) – payer wallet password

Returns errcode. You can query from the errcode dict.

querybillings (*username*, *start*, *end*)
get billings info

Parameters

- **username** (*str*) – current user wallet name
- **start** (*str*) – start time.2018-03-29
- **end** (*str*) – end time.2018-03-29

Returns errcode. You can query from the errcode dict.

querybillingsdetail (*author*, *page*=1, *num*=10)
query the billings detail.Union the income and outgo

Parameters

- **author** (*str*) – current user wallet name
- **page** (*int*) – which page of result do you want to view?Default is 1.
- **num** (*int*) – how many pieces of data of result do you want to view?Default is 10.

Returns errcode. You can query from the errcode dict.

queryincomebillings (*author*, *start*, *end*, *page*=1, *num*=10, *category*=2)
get income billings info

Parameters

- **author** (*str*) – current user wallet name
- **start** (*str*) – start time.2018-03-29
- **end** (*str*) – end time.2018-03-29
- **page** (*int*) – which page of result do you want to view?Default is 1.
- **num** (*int*) – how many pieces of data of result do you want to view?Default is 10.
- **category** (*int*) – resource type. 0—common resource,1—ads,2—all

Returns errcode. You can query from the errcode dict.

queryoutgobillings (*author, start, end, page=1, num=10, category=2*)

get outgo billings info

Parameters

- **author** (*str*) – current user wallet name
- **start** (*str*) – start time.2018-03-29
- **end** (*str*) – end time.2018-03-29
- **page** (*int*) – which page of result do you want to view?Default is 1.
- **num** (*int*) – how many pieces of data of result do you want to view?Default is 10.
- **category** (*int*) – resource type. 0—common resource,1—ads,2—all

Returns errcode. You can query from the errcode dict.

querypublishnum (*author, start, end*)

query the number of resourced which has published

Parameters

- **author** (*str*) – current user wallet name
- **start** (*str*) – start time.2018-03-29
- **end** (*str*) – end time.2018-03-29

Returns errcode. You can query from the errcode dict.

queryresource (*page=1, num=10, **kwargs*)

query the resource list from the ulord platform.method is get

Parameters

- **page** (*int*) – which page do you want to view?Default is 1.
- **num** (*int*) – how many pieces of datas in one page?.Default is 10.
- **kwargs** (*key-value*) – key-value query

Returns errcode. You can query from the errcode dict.

queryuserpublished (*wallet_username, page=1, num=10*)

query user published from ulord platform

Parameters

- **wallet_username** (*str*) – auther wallet name
- **page** (*int*) – which page of result do you want to view?Default is 1.

- **num** (*int*) – how many pieces of data of result do you want to view?Default is 10.

Returns errcode.You can query from the errcode dict.

register (*username, password*)

regist wallet address from the ulord platform

Parameters

- **username** (*str*) – wallet name
- **password** (*str*) – wallet password

Returns errcode.You can query from the errcode dict

transaction (*payer, claim_id, pay_password, isads=False*)

record the transaction to the ulord platform

Parameters

- **payer** (*str*) – payer wallet name
- **claim_id** (*str*) – resource claim id
- **pay_password** (*str*) – payer wallet password
- **isads** (*bool*) – check the resource if a Ad.

Returns errcode.You can query from the errcode dict.

update (*data*)

update data from the ulord-platform

Parameters **data** (*dict*) – data needed to be updated.Key includes
id,pay_password,title,tags,udfs_hash,price,content_type,despay_password

Returns errcode.You can query from the errcode dict.

5.7 user

class *ulordapi.user.Developer* (*appkey, secret*)

Bases: *ulordapi.up.UlordHelper*

basic developer class to execute some functions

config_edit (*args=None*)

config operations

Parameters **args** (*list/dict*) – a list or a dict.Update config

Returns args dict

config_show (*args=None*)

show config.Default show all.

Parameters **args** (*list/dict*) – keys

Returns config according to the keys

decrypt (*args*)

check if the arg is encrypted.If encrypted return decrypted arg,else return None.

Parameters **args** (*str/str list*) – arg need to be checked,

Returns decrypted arg or arg(unicode)

request (*method, url, data=None*)
advanced command. request to the ulord-platform

Parameters

- **method** (*str*) – request method, like post, get and so on.
- **url** (*str*) – request url
- **data** (*dict*) – request data

Returns return result. you can query the errcode

udfs_cat (*udfshashes*)
view the udfs hash comment

Parameters **udfshashes** (*list*) – udfs hashes

Returns dict udfshash - True/False

udfs_download (*udfshashes*)
download file from ulord.udfses is a udfs list

Parameters **udfshashes** (*list*) – udfs hashes

Returns udfshash - True/False

udfs_upload (*fileinfos*)
upload file into ulord.fileinfo is a file list

Parameters **fileinfos** (*list/str*) – file need to upload to the ulord-platform

Returns dict fileinfo - True/False

class *ulordapi.user.Junior* (*appkey, secret*)
Bases: *ulordapi.user.Developer*

Junior programmer to develop his application. Using default database.

create_database (*path=None*)
create database

Parameters **path** (*str*) – database path. Warining: It's a dir

Returns True/False

pay_ads (*wallet, claim_id, authername*)
user view ads

Parameters

- **wallet** (*str*) – user wallet name
- **claim_id** (*str*) – resource claim id
- **authername** (*str*) – resource auther name

Returns errcode. You can query from the errcode.

pay_resources (*payer, claim_id, password, encrypted=False*)
user pay resource

Parameters

- **payer** (*User*) – payer
- **claim_id** (*str*) – resource claim id
- **password** (*str*) – payer password

Returns errcode. You can query from the errcode.

query (*sql*)

advanced command self query

Parameters **sql** (*str*) – sql sentence

Returns query result

resource_views (*claim_id*)

add resource view

Parameters **claim_id** (*str*) – resource claim_id

Returns resource current view

resource_publish (*title*, *udfshash*, *amount*, *tags*, *des*, *usercondition*)

user publish resource

Parameters

- **title** (*str*) – resource title
- **udfshash** (*str*) – resource uploaded to the UDFS hash
- **amount** (*float*) – resource price
- **tags** (*list*) – resource tag
- **des** (*str*) – resource description
- **usercondition** (*dict*) – a condition which need to query user

Returns errcode. You can query from the errcode.

resource_update (*id*, *pay_password*, *encrypted=True*, *title=None*, *body=None*, *price=None*,

tags=None, *des=None*)

user update data to the ulord-platform

Parameters

- **id** (*str*) – data id
- **pay_password** (*str*) – auther wallet pay password
- **encrypted** (*bool*) – if encrypt password
- **title** (*str*) – resource title
- **body** (*str*) – resource
- **price** (*float*) – resource price
- **tags** (*list*) – resource tags
- **des** (*str*) – resource description

Returns errcode. You can query from the errcode.

start_web ()

start web server

user_activity (*token=None*, *username=None*)

activity. App developer send some ulords to the user.

Parameters

- **token** (*str*) – user token
- **username** (*str*) – user name

Returns True or False.

user_info_query (*username=None, token=None*)
user information

Parameters

- **username** (*str*) – username.Default is none.
- **token** (*str*) – user token.Default is none.

Returns dict.User info

user_infor_modify (*password, username=None, token=None, encrypted=False, cellphone=None, email=None, new_password=None*)
user information

Parameters

- **username** (*str*) – username.Default is none.
- **token** (*str*) – user token.Default is none.
- **encrypted** (*bool*) – if encrypted password.If ture,all password will be decrypted.
- **password** (*str*) – user passowrd to confirm account
- **cellphone** (*str*) – user new cellphone
- **email** (*str*) – user new email
- **new_password** (*str*) – user new password

Returns dict.User info

user_login (*username, password, encrypted=False*)
user login

Parameters

- **username** (*str*) – user name
- **password** (*str*) – user password
- **encrypted** (*bool*) – check if the password is encrypted

Returns user token

user_logout (*token=None, username=None*)
user logout.Change user's timestamp

Parameters

- **token** (*str*) – user token
- **username** (*str*) – user name

Returns username or errcode.You can query the errcode dict.

user_regist (*username, password, cellphone=None, email=None, wallet=None, pay_password=None, encrypted=False*)
user regist

Parameters

- **username** (*str*) – user name
- **password** (*str*) – user password

- **cellphone** (*str*) – user cellphone.Default is None.
- **email** (*str*) – user email.Default is None.
- **wallet** (*str*) – user wallet name.Default is username.
- **pay_password** (*str*) – user wallet password.Default is hash password.
- **encrypted** (*bool*) – check if the password encrypted

Returns user token

class *ulordapi.user.Senior* (*appkey, secret*)

Bases: *ulordapi.user.Developer*

Senior programmer to develop his application.

5.8 utils

class *ulordapi.utils.FileHelper*

file helper to operate the files

changeName (*originalname, newname*)

change file name from a hash to filename

Parameters

- **originalname** (*str*) – a file path, old file name.
- **newname** (*str*) – a file path, new file name.

Returns True or False

getName (*filename*)

get file name,including type

Parameters **filename** (*str*) – a file path

Returns file name

getPureName (*filename*)

get file name.Doesn't contain type.

Parameters **filename** (*str*) – a file path

Returns file name

getSize (*filename*)

get file size

Parameters **filename** (*str*) – a file path

Returns file size

getType (*filename*)

get file type

Parameters **filename** (*str*) – a file path

Returns file type

mergeFile (*filepath, chunks*)

merge chunks into a file.Used for the multi-threading download

Parameters

- **filepath** (*str*) – a file path.Final file.
- **chunks** (*list*) – chunk path list

Returns True or False

readFile (*filepath*)
read file comment

Parameters **filepath** (*str*) – a file path

Returns file comment

saveFile (*filepath, source*)
save source into a filepath. Create path if dir is not existed.

Parameters

- **filepath** (*str*) – a file path
- **source** (*unicode*) – message

Returns True or False

`ulordapi.utils.ListToDict(args)`
change a list to dict

Parameters **args** (*list*) – a list

Returns dict

```
>>> a = [1, 2, 3, 4]
>>> print(ListToDict(a))
{1: {2: {3: 4}}}
```

class `ulordapi.utils.RSAHelper(public_path, private_path)`
Bases: `object`

rsa helper.Create private key and public key.

decrypt (*prikey, message*)
using private key to decrypt message

Parameters

- **prikey** (*Crypto.PublicKey.RSA.RsaKey*) – private key
- **message** (*str*) – need to be decrypted

Returns decrypted message

encry (*pubkey, comment*)
using pubkey to encrypt comment

Parameters

- **pubkey** (*Crypto.PublicKey.RSA.RsaKey*) – public key
- **comment** (*str*) – information

Returns encrypted data

generate()
generate public key and private key

load()
read key from the path

`ulordapi.utils.Update (orgin_dict, dict_father)`
 update dict dict_father to dict orgin_dict

Parameters

- **orgin_dict** (`dict`) – base dict
- **dict_father** (`dict`) – need to update

Returns dict orgin_dict which updates orgin_dict

```
In [8]: dictb = {
...: "t":2,
...: "ttt":{
...: "123":1,
...: "a":2
...: }
...:
...: }

In [9]: dicta = {
...: "test": 1,
...: "ttt":{
...: "a":1
...: }
...: }

In [10]: Update(dictb, dicta)
Out[10]: {'t': 2, 'test': 1, 'ttt': {'123': 1, 'a': 1}}
```

`ulordapi.utils.generateMD5 (value)`
 generate value's md5

Parameters `value` (`str`) – need to encrypt

Returns value's md5 or “”

`ulordapi.utils.isCellphone (number)`
 check if a cellphone

Parameters `number` (`str`) – cellphone

Returns True or False

`ulordapi.utils.isMail (mail)`
 check if a mail

Parameters `mail` (`str`) – mail

Returns True or False

`ulordapi.utils.isUdfsHash (udfshash)`
 check the string if a udfs hash simple check, TODO advanced check

Parameters `udfshash` (`str`) – a string

Returns True or False

`ulordapi.utils.json_load_byteified (file_handle)`
 encode a json file handle :param file_handle: a json file handle :type file_handle: handle :return: encoded json(utf-8)

`ulordapi.utils.require(required, tag)`

a decorator function.current function need required function.Tag is a marker which mark the required function is running.

Parameters

- `required(function)` – required function
- `tag(bool)` – mark the required function if has been running.

Returns decorator

5.9 version

5.10 webServer

`ulordapi.webServer.activity()`

activity.Send 10 ulord to new user.

`ulordapi.webServer.add_views()`

add views according to the resource's title

Returns current views

`ulordapi.webServer.auth_login_required()`

check token

Returns current user

`ulordapi.webServer.blog_delete()`

delete blog :return: errcode.You can query from the errcode dict.

`ulordapi.webServer.blog_list()`

list all blog

Returns blog list

`ulordapi.webServer.blog_list_by_ID()`

list blogs by ID

Returns blog list

`ulordapi.webServer.blog_publish()`

publish blog

Returns claim id,ulord-platform DB ID

`ulordapi.webServer.blog_update()`

update blog

Returns claim id,ulord-platform DB id

`ulordapi.webServer.check_bought()`

check the resource if has been bought

Returns if has bought return resource hash,if not existed return null,if hasn't bought return none.

`ulordapi.webServer.encrypt()`

`ulordapi.webServer.get_billings()`

query user's billing

```
ulordapi.webServer.get_billingsdetail()
    query user billing detail

ulordapi.webServer.get_expensebillings()
    get user expense billing information

ulordapi.webServer.get_incomebillings()
    get user income billing information

ulordapi.webServer.get_pubkey()
    Get:generate publiekey to fronted-end.Post:Check the message if crypted.
        Returns get-publickey/post-decrypted message

ulordapi.webServer.get_userbalance()
    get user balance
        Returns user balance

ulordapi.webServer.get_userinfo()
    get user infor
        Returns dict.User information

ulordapi.webServer.get_userpublished()
    get blog list the user has published

ulordapi.webServer.get_userpublishednum()
    get the num of the blogs that user has published

ulordapi.webServer.login()
    user login
        Returns user token

ulordapi.webServer.logout()
    user logout
        Returns success

ulordapi.webServer.modify_userinfo()
    Delete modify username.It will make publish error

ulordapi.webServer.pay_ads()
    get ulord from ads
        Returns ads hash

ulordapi.webServer.pay_blogs()
    user pay blogs to view
        Returns blog hash

ulordapi.webServer.regist()
    user regist
        Returns user token

ulordapi.webServer.start()
```


CHAPTER 6

About py-ulord-api

Ulord is a P2P value delivery public chain. Through building its blockchain underlying architecture and digital resource distribution protocols, it enables third-party developers to explore their own applications over open-source agreements to form a complete ecology of blockchain technology and applications. Based on various rules and protocols created by Ulord, it loads various types of digital resource application scenarios including text, pictures, music, video and software, providing a direct docking platform for information creators and consumers.

This is a toolkit to save your resource to the ulord-platform.

CHAPTER 7

Indices and tables

- genindex
- modindex
- search

Python Module Index

U

ulordapi.config, 11
ulordapi.daemonCLI, 11
ulordapi.errcode, 11
ulordapi.manage, 11
ulordapi.udfs.udfs, 9
ulordapi.up, 14
ulordapi.user, 17
ulordapi.utils, 21
ulordapi.version, 24
ulordapi.webServer, 24

Index

A

activity (ulordapi.manage.User attribute), 13
activity() (in module ulordapi.webServer), 24
add_views() (in module ulordapi.webServer), 24
Ads (class in ulordapi.manage), 11
amount (ulordapi.manage.Ads attribute), 11
amount (ulordapi.manage.Content attribute), 12
amount (ulordapi.manage.Resource attribute), 12
auth_login_required() (in module ulordapi.webServer), 24

B

balance (ulordapi.manage.User attribute), 13
blog_delete() (in module ulordapi.webServer), 24
blog_list() (in module ulordapi.webServer), 24
blog_list_by_ID() (in module ulordapi.webServer), 24
blog_publish() (in module ulordapi.webServer), 24
blog_update() (in module ulordapi.webServer), 24
body (ulordapi.manage.Ads attribute), 12
body (ulordapi.manage.Content attribute), 12
body (ulordapi.manage.Resource attribute), 12
boughts (ulordapi.manage.User attribute), 13

C

calculate_sign() (ulordapi.up.UlordHelper method), 14
cat() (ulordapi.udfs.udfs.UdfsHelper method), 10
cellphone (ulordapi.manage.User attribute), 13
changeName() (ulordapi.utils.FileHelper method), 21
check_bought() (in module ulordapi.webServer), 24
checkisbought() (ulordapi.up.UlordHelper method), 14
claimID (ulordapi.manage.Ads attribute), 12
claimID (ulordapi.manage.Content attribute), 12
claimID (ulordapi.manage.Resource attribute), 12
client (class in ulordapi.daemonCLI), 11
Config (class in ulordapi.config), 11
config_edit() (ulordapi.user.Developer method), 17
config_show() (ulordapi.user.Developer method), 17
Content (class in ulordapi.manage), 12
create() (in module ulordapi.manage), 13

create_database() (ulordapi.user.Junior method), 18

D

date (ulordapi.manage.Ads attribute), 12
date (ulordapi.manage.Content attribute), 12
date (ulordapi.manage.Resource attribute), 12
decrypt() (ulordapi.user.Developer method), 17
decrypt() (ulordapi.utils.RSAHelper method), 22
delete() (ulordapi.up.UlordHelper method), 14
description (ulordapi.manage.Ads attribute), 12
description (ulordapi.manage.Content attribute), 12
description (ulordapi.manage.Resource attribute), 12
Developer (class in ulordapi.user), 17
downloadfile() (ulordapi.udfs.udfs.UdfsHelper method), 10
downloadhash() (ulordapi.udfs.udfs.UdfsHelper method), 10

E

edit() (ulordapi.config.Config method), 11
edit_config() (in module ulordapi.daemonCLI), 11
email (ulordapi.manage.User attribute), 13
encry() (ulordapi.utils.RSAHelper method), 22
encrypt() (in module ulordapi.webServer), 24

F

FileHelper (class in ulordapi.utils), 21
formatResult() (in module ulordapi.daemonCLI), 11

G

generate() (ulordapi.utils.RSAHelper method), 22
generateMD5() (in module ulordapi.utils), 23
get() (ulordapi.up.UlordHelper method), 14
get_billings() (in module ulordapi.webServer), 24
get_billingsdetail() (in module ulordapi.webServer), 24
get_expensebillings() (in module ulordapi.webServer), 25
get_incomebillings() (in module ulordapi.webServer), 25
get_pid() (ulordapi.udfs.udfs.Udfs method), 9
get_pubkey() (in module ulordapi.webServer), 25

get_udfs() (ulordapi.udfs.udfs.Udfs method), 9
get_userbalance() (in module ulordapi.webServer), 25
get_userinfo() (in module ulordapi.webServer), 25
get_userpublished() (in module ulordapi.webServer), 25
get_userpublishednum() (in module ulordapi.webServer), 25
 25
getName() (ulordapi.utils.FileHelper method), 21
getPureName() (ulordapi.utils.FileHelper method), 21
getSize() (ulordapi.utils.FileHelper method), 21
getType() (ulordapi.utils.FileHelper method), 21

H

hash_password() (ulordapi.manage.User method), 13

I

id (ulordapi.manage.Ads attribute), 12
id (ulordapi.manage.Content attribute), 12
id (ulordapi.manage.Resource attribute), 12
id (ulordapi.manage.Tag attribute), 13
id (ulordapi.manage.User attribute), 13
isCellphone() (in module ulordapi.utils), 23
isMail() (in module ulordapi.utils), 23
isUdfsHash() (in module ulordapi.utils), 23

J

json_load_byteified() (in module ulordapi.utils), 23
Junior (class in ulordapi.user), 18

L

list() (ulordapi.udfs.udfs.UdfsHelper method), 10
ListToDict() (in module ulordapi.utils), 22
load() (ulordapi.utils.RSAHelper method), 22
login() (in module ulordapi.webServer), 25
logout() (in module ulordapi.webServer), 25

M

main() (in module ulordapi.daemonCLI), 11
mergeFile() (ulordapi.utils.FileHelper method), 21
modify_config() (ulordapi.udfs.udfs.Udfs method), 9
modify_userinfo() (in module ulordapi.webServer), 25

P

password_hash (ulordapi.manage.User attribute), 13
pay_ads() (in module ulordapi.webServer), 25
pay_ads() (ulordapi.user.Junior method), 18
pay_blogs() (in module ulordapi.webServer), 25
pay_password (ulordapi.manage.User attribute), 13
pay_resources() (ulordapi.user.Junior method), 18
paytouser() (ulordapi.up.UlordHelper method), 14
post() (ulordapi.up.UlordHelper method), 14
pre1 (ulordapi.manage.Tag attribute), 13
pre2 (ulordapi.manage.Tag attribute), 13
publish() (ulordapi.up.UlordHelper method), 14

Q

query() (ulordapi.user.Junior method), 19
query_resourc_by_ID() (ulordapi.up.UlordHelper method), 15
querybalance() (ulordapi.up.UlordHelper method), 15
queryBillingDetailByID() (ulordapi.up.UlordHelper method), 15
querybillings() (ulordapi.up.UlordHelper method), 15
querybillingsdetail() (ulordapi.up.UlordHelper method), 15
queryincomebillings() (ulordapi.up.UlordHelper method), 15
queryoutgobillings() (ulordapi.up.UlordHelper method), 16
querypublishnum() (ulordapi.up.UlordHelper method), 16
queryresource() (ulordapi.up.UlordHelper method), 16
queryStatisticsByID() (ulordapi.up.UlordHelper method), 15
queryuserpublished() (ulordapi.up.UlordHelper method), 16

R

read() (ulordapi.config.Config method), 11
readFile() (ulordapi.utils.FileHelper method), 22
regist() (in module ulordapi.webServer), 25
regist() (ulordapi.up.UlordHelper method), 17
request() (ulordapi.user.Developer method), 17
require() (in module ulordapi.utils), 23
resource_views() (ulordapi.user.Junior method), 19
Resource (class in ulordapi.manage), 12
resource (ulordapi.manage.Content attribute), 12
resource (ulordapi.manage.Resource attribute), 12
resource (ulordapi.manage.Tag attribute), 13
resource_publish() (ulordapi.user.Junior method), 19
resource_type (ulordapi.manage.Ads attribute), 12
resource_type (ulordapi.manage.Content attribute), 12
resource_type (ulordapi.manage.Resource attribute), 13
resource_update() (ulordapi.user.Junior method), 19
resumableDownload() (ulordapi.udfs.udfs.UdfsHelper method), 10
return_result() (in module ulordapi.errcode), 11
RSAHelper (class in ulordapi.utils), 22

S

save() (ulordapi.config.Config method), 11
saveFile() (ulordapi.utils.FileHelper method), 22
Senior (class in ulordapi.user), 21
show_config() (in module ulordapi.daemonCLI), 11
start() (in module ulordapi.webServer), 25
start() (ulordapi.udfs.udfs.Udfs method), 9
start_command() (ulordapi.udfs.udfs.Udfs method), 9
start_init() (ulordapi.udfs.udfs.Udfs method), 9
start_web() (ulordapi.user.Junior method), 19

`stop()` (`ulordapi.udfs.udfs.Udfs` method), 9

T

`Tag` (class in `ulordapi.manage`), 13
`tagname` (`ulordapi.manage.Tag` attribute), 13
`tags` (`ulordapi.manage.Ads` attribute), 12
`tags` (`ulordapi.manage.Content` attribute), 12
`tags` (`ulordapi.manage.Resource` attribute), 13
`timestamp` (`ulordapi.manage.User` attribute), 13
`title` (`ulordapi.manage.Ads` attribute), 12
`title` (`ulordapi.manage.Content` attribute), 12
`title` (`ulordapi.manage.Resource` attribute), 13
`token` (`ulordapi.manage.User` attribute), 13
`transaction()` (`ulordapi.up.UlordHelper` method), 17

U

`Udfs` (class in `ulordapi.udfs.udfs`), 9
`udfs_cat()` (`ulordapi.user.Developer` method), 18
`udfs_download()` (`ulordapi.user.Developer` method), 18
`udfs_upload()` (`ulordapi.user.Developer` method), 18
`UdfsHelper` (class in `ulordapi.udfs.udfs`), 10
`ulordapi.config` (module), 11
`ulordapi.daemonCLI` (module), 11
`ulordapi.errcode` (module), 11
`ulordapi.manage` (module), 11
`ulordapi.udfs.udfs` (module), 9
`ulordapi.up` (module), 14
`ulordapi.user` (module), 17
`ulordapi.utils` (module), 21
`ulordapi.version` (module), 24
`ulordapi.webServer` (module), 24
`UlordHelper` (class in `ulordapi.up`), 14
`Update()` (in module `ulordapi.utils`), 22
`update()` (`ulordapi.udfs.udfs.UdfsHelper` method), 10
`update()` (`ulordapi.up.UlordHelper` method), 17
`UPID` (`ulordapi.manage.Ads` attribute), 11
`UPID` (`ulordapi.manage.Content` attribute), 12
`UPID` (`ulordapi.manage.Resource` attribute), 12
`upload_file()` (`ulordapi.udfs.udfs.UdfsHelper` method), 10
`upload_stream()` (`ulordapi.udfs.udfs.UdfsHelper` method), 10
`User` (class in `ulordapi.manage`), 13
`user_activity()` (`ulordapi.user.Junior` method), 19
`user_info_query()` (`ulordapi.user.Junior` method), 20
`user_infor_modify()` (`ulordapi.user.Junior` method), 20
`user_login()` (`ulordapi.user.Junior` method), 20
`user_logout()` (`ulordapi.user.Junior` method), 20
`user_regist()` (`ulordapi.user.Junior` method), 20
`userid` (`ulordapi.manage.Ads` attribute), 12
`userid` (`ulordapi.manage.Content` attribute), 12
`userid` (`ulordapi.manage.Resource` attribute), 13
`username` (`ulordapi.manage.User` attribute), 13

V

`verify_password()` (`ulordapi.manage.User` method), 13
`views` (`ulordapi.manage.Ads` attribute), 12
`views` (`ulordapi.manage.Content` attribute), 12
`views` (`ulordapi.manage.Resource` attribute), 13

W

`wallet` (`ulordapi.manage.User` attribute), 13