

WenQuanYi Micro Hei [Scale=0.9]WenQuanYi Micro Hei Mono song-
WenQuanYi Micro Hei sfWenQuanYi Micro Hei "zh" = 0pt plus 1pt

xtest-wiki Documentation

åŘŠåŸČ 17.6.6.1

Harmo

2018 åžŧ 05 æIJL 31 æUě

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CHAPTER 1

ÁsĀā\$ſçĭŚçşżçżſăőL'èčĚ

1.1 äĲçŦĬ docker-compose éČĬçĭšĭĭĴŁæŎĬè■ŘĭĭĴŁ'

1.1.1 āſžæĴŋçŎŕácČ

- Linux āőŁäÿžæĴž
- Docker çŎŕácČ
- docker-compose āũěăĚũ

1.1.2 æďĎāžžéŦĬĴăČŔ

ăžčçăĀăĜĚăďŦĜ

ăÿŦěĭĭ x-utest docker-compose éążçŻőæăžçŻăĭŦ, èŁŘèąŦĤ

```
git clone https://github.com/x-utest/xtest-docker-compose.git
```

1.1.3 èŁŘèąŦĤ

èŁŻăĚĚ docker-compose éążçŻőæăžçŻăĭŦ, èŁŘèąŦĤ cmd.sh

ăĴĬăĝŦăŦŦŦMongoDB

éĀŁ'æŦĴ'æ■ěéĴďŦĬ, âĴĬăĝŦăŦŦŦ MongoDB.


```
npm -v
```

æĈæđIéČ;æŸçđ'žçL'ŁæIJñáRúæŦřā■ŮiijŇáLŽæšæIJL'âijČâyŷiijŇâũsâóL'èĈæĹŘâŁ§
nodejs áŘĽáŇĚĉōāçŦEāũēāĚũ

äzččāAāĠEāđ'Ġ

āIJĴçžçžšæāžçŽōā;ŦäŷŇáLŽāžçŽōā;Ŧ

èĤZāĚĚ /www çŽōā;ŦāŦŦiijŇäŷŇē; x-test āL'■çñréāžçŽōäzččāAiiž

```
git clone https://github.com/x-utest/xtest-web.git
```

äĴlètŮāóL'èĈĚ

iijĴläžēäŷŇæš■ā;IJāIJléāžçŽōæāžçŽōā;ŦäŷŇä;ĤçŦlāŚ;äzd'èāŇē;ŚāĚēiijL'

éĉŮāĚĽāóL'èĈĚç;ŚéāŦæL'ŚāŇĚāũēāĚũwebpackāŘĽvueç■L'ä;ĴètŮéāž

çŦšāžŦ npm āIJlāŽ;ād' ŮæIJ■āŁāāŽlāŷŇē; çŽĎāŦŦāŽāiijŇæĈæđIJç;ŚçzIJæŦŦē; ČçŘEæČšiiijŇāŦřäžçç

```
npm install
```

æĈæđIJç;ŚçzIJē;ČāũōæĽŮēĀĚç■L'ä;ĚāŦŦā■ā;Ŧäŷ■āŁlīiijŇāŦřäžççŽt'æŦēä;ĤçŦlāũŸāóĴēŦIJāČŦæĽ
āóL'èĈĚ npm çŽĎāŽ;āĚĚāũēāĚũ cnpm, è;ŚāĚĚ

```
npm install -g cnpm --registry=https://registry.npm.taobao.org
```

cnpm āŦřäžæZĤäžçnpmä;ĤçŦiijŇæĴēāóL'èĈĚāŇĚāŠŇä;ĴètŮ

```
cnpm -v
```

æĈæđIJæŸçđ'žçŽōā;ŦāŠŇçL'ŁæIJñáRūiijŇáLŽ cnpm āóL'èĈæĹŘâŁ§

```
cnpm install
```

ç■L'ä;ĚäŷŇē; āóŇæĹŦiijŇæĈæđIJāĠççŦŦāóL'èĈĚād'sèt'èçŽĎāijČâyŷiijŇēŦuārĴērŦä;ĤçŦlāçōāçŦEāŠ

āóL'èĈĚ

æIJñāIJŦēIJāĈēAâijĀāŦŦæIJ■āŁāæŦēāŦçiiijŇēĤZāĚĉçŽōā;ŦæL'gèāŇāŚ;äzd'èāŇ
āĚĽēōç;ŦāŦžāžŦçŽĎæIJ■āŁāæŦēāŦçāIJŦāĀ

```
node init
```

iijĴläĈæđIJä;āāóL'èĈĚäžĤçnpmiijŇäžēäŷŇäŷd'äŷŦpmaŚ;äzd'ērūæŽĤæ■cäŷçcnpmæL'gèāŇiijL'

æāžæ■ŦæŦŦçđ'žē;ŚāĚĚæIJ■āŁāāŽĴ IP āIJŦāĀāŠŇ xtest
æIJ■āŁāçñŦŦāŦçāŦiijĴ8009iijL'iijŇæŦžāē;āŦŦāijĀāĠŇæL'ŚāŇĚéāžçŽç,āŚ;äzd'èāŇē;ŚāĚĚ

(çzäyLéat)

```
pwd:"xtest@2018",
roles:[{role:"readWrite", db:"xtest"}]
})

db.auth("xtest", "xtest@2018")
```

äzčăAăĜĖăd'Ĝ

äyÑèj x-utest æIJ■ăŁačńřäzčăAġijŇčL'ŁæIJñ 3.17.5.29.1

```
git clone https://github.com/x-utest/xtest-server.git
```

ăŏL'èčĚăĵlèĵŮ

ăŏL'èčĚ x-utest æIJ■ăŁačńřäzčăAăšžæIJñăŇĚ

```
cd xt-server-base

sudo ./install
```

ăĵčĵŮ pip äŏL'èčĚčĹăĹĖăĵĀăžŘăžŞ

```
cd xt-server-api

pip install -r requirement.txt
```

äyÑèj;ăžŭăŏL'èčĚ dtlib äžŞġijŇčL'ŁæIJñ new

```
git clone https://github.com/ityoung/dtlib.git
cd dtlib
./install.sh
```

Nginx äŏL'èčĚčĹăĵŮ

ăĵčĵŮ apt äŏL'èčĚ nginxġijŁăĵŇčŕŤčL'ŁæIJñ openresty/1.9.7.4ġijL

```
apt-get install nginx
```

èĵřéŞĵăŖč xt-server-api/nginx_config çŽŏăĵŤăy■çŽĎéĚ■çĵŏăŮĜăžŭăĹŕ
/etc/nginx/conf.d/ çŽŏăĵŤăyŇġijŇăžŭčĜ■ăŕŕ nginx æIJ■ăŁăĵăĵăžŇčŤşæŤĹ

```
cd /etc/nginx/conf.d/

ln -s <YOUR_BASE_PATH>/xtest-server/nginx_config/* .

service nginx restart
```

cd <YOUR_BASE_PATH> & xt-server-api &L'ÄÄJlçZDçZõÄTäÄ

éGÄÄRf nginx ÄJÄLÄÄRÖijNæçÄæšë 8099, 8009
äyd'äylçnrÄRçæYräRçäd'DäZÖçZSÄRñçLüæÄÄ

```
netstat -ntlp | grep 80
tcp        0      0 0.0.0.0:8099          0.0.0.0:*            LISTEN*
tcp        0      0 0.0.0.0:8009          0.0.0.0:*            LISTEN*
```

ÄRfÄL x-test ÄJÄLÄçlNäZÄ

ÄJÄÄRÖäyÄæÄijNæLgëaNæCäyNäSjäzd'ÄRfÄL x-test ÄJÄLÄçnrçlNäZÄijZ

```
python start.py
```

1.2.4 ÄjÄÄgNäçTlÄRg

ÄRègÄZlæL'SÄijÄ <http://IP:8099> ijNçCZaGzäyNäyÄæÄÄÄRfÄLiägNäNÜçszçzæTæÄZSijNäZü
X-Test ÄTÄNçTçszçzæÄÄ

çşżçžšăÿžéąııjŽ

ä;£çŤíæ■ěéld'ijŽ

- æIŋçşzçzşäyẓèÇAçŽĐāRŪāijŪæYriijŽ èGłāŁlāNŪætNērŢāũèçlNāyLīijŊæNěæIJLçijŪčāAèÇjāŁŽçŽŁ
 āèÇædIJā;ääy■āijŽāijĀāRŚtijNērūāĒĻæāēĒĀşzçāĂçşèèrEāE■ārĪerŢā;ŁçŢĪæIŋçşzçzşăĂĆ
 æIŋçşzçzşşäyẓèÇAèğçāEşşāèÇäyNāĠäyĪeŪőéçYriijŽ

- 7

2.2 2025.10.17.17.6.6.1

2025.10.17.17.6.6.1

ID	项目代号	版本号	用例总数	失败个数	错误个数	跳过个数	耗时	测试日期	操作
4a959	xtest-demo	2.17.5.5.1	6	3	0	0	0.00	2017-05-11 17:17:43	⋮
4a95e	xtest-demo	2.17.5.5.1	6	3	0	0	0.00	2017-05-11	分享
4a95d	xtest-demo	2.17.5.5.1	6	3	0	0	0.00	2017-05-11	详情
4a95c	xtest-demo	2.17.5.5.1	6	3	0	0	0.00	2017-05-11	删除
4a95b	xtest-demo	2.17.5.5.1	6	3	0	0	0.00	2017-05-11	

2025.10.17.17.6.6.1

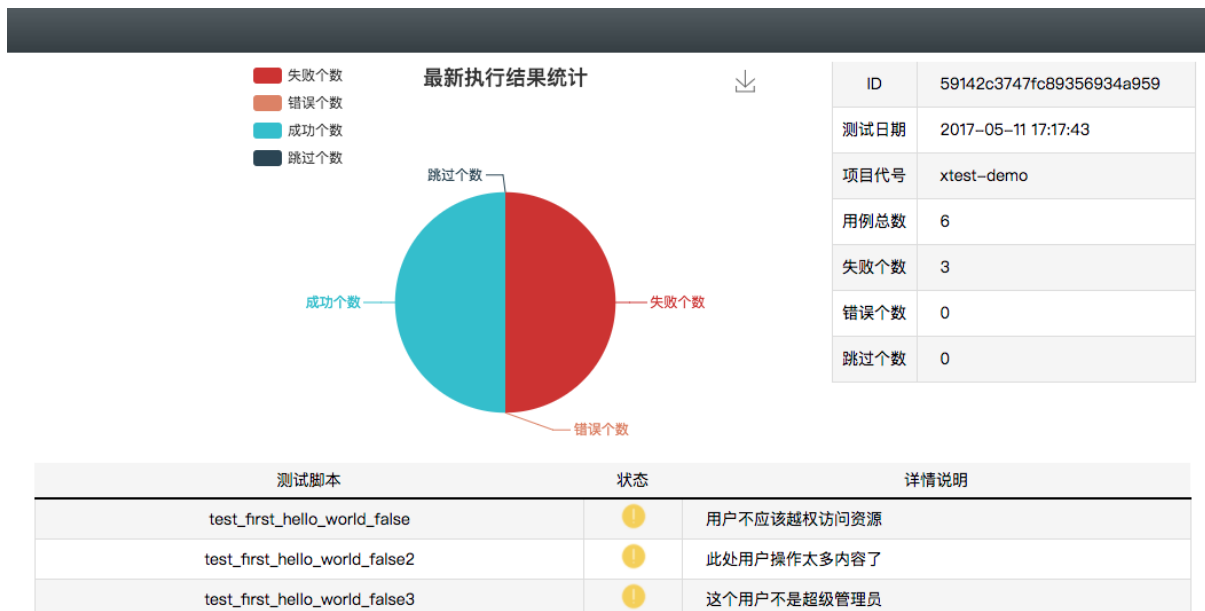
分享链接

×

<http://xtest.apiapp.cc/utest-report-share.html?token=b40a587c362a11e7856f00163e006b26>

2025.10.17.17.6.6.1

2025.10.17.17.6.6.1



2025.10.17.17.6.6.1

2. æşqæIJL'ăžčçăAæL'ğëaŇçşzçzşiiŇéIJăðeAèĠăũsăŌzăEžætŇerŤăžčçăAæIJăŇIJræL'ğëaŇ
 3. áŔřăžëârEæL'ğëaŇçşzçzşæŤĵăIJĠJenkinséĠŇéĠăŌzèĠăĹăĹăđDăžžèğëáŔŚăĵăçŽDæL'ğëaŇăžčçăAġijŇ
 4. JenkinsăŔĹèČĵæŸĵcd'žæđDăžžçŽDăŌĒăŔŚġijŇçDăŔŌæIJŇçşzçzşăŔřăžëæŸĵcd'žætŇerŤçŽDăŌĒăŔŚăŔŌçz■ăŔŤæIJŽġijŽ
 1. æŔŔăĵĵçIJŇæĹăæĹëăĹăĹşèČĵijŇârEéĠŔăŇŮeĹĠŇæĹŤăĵăŝăĹŔăĒăŔŸçŤĵèğEăçŽăŸĹ
 2. èĠăĹăĹăŇŮSAASæIJ■ăĹăăŽĹăE■èğëáŔŚçŽăžŤçŽDwebhookġijŇăŽđërČăĹŔăŔŌçz■çŽDçşzçzşġijĹăĵŇ
 3. áržæŌčJenkinsç■ĹæŇAçz■éŽEăĹŔ
- ăĚşăžŌx-utestçşzçzşġijŇçŽăĹ■èĹŸæIJL'ăžŽăĹşèČĵăIJăŏŇăŮDăŸ■ġijŇăŏŇăŮDăŔŌăE■ăržăđ'ŮăġŮăŖă

2.5 áŔŌæŮĠæŔŔèçA

- ăIJăæ■ăġijŔăġijĂăğŇçşzçzşçŽDēŤĹçŕĠăđ'ğèŏžăĹ■ġijŇæIJL'ăĹĚèçAçzġijèĹŕăŸĂăŸŇæIJŇæŮĠçŽDăĒăŔăŏ
1. ăŤçđ'žăžEăŸĂçğ■ æŤŇerŤéĠŔăŇŮăġijĂăŔŚăŖŇ æŤŇerŤéĹŝăĹăġijĂăŔŚçŽDăũëăĵIJætA
 2. éŽĹëĹŕăžEăŸĂăžŽăĚşăžŌèĠăĹăĹăŇŮætŇerŤçŽDăşžæIJŇæçČăĹŤ
 3. ăġžërČăžEăŸĂăžŽăĹĚèçAçŽDèĹŕăçĵèğDèŇČçŽDăġijĂăŔŚăžăæČŕ
 4. æŔŔăĠăžăžEăŸĂçğ■èĠăĹăĹăŇŮætŇerŤæĹăŝĹçŽDæĹæŮĠæăġijăġijŔ
 5. çžŽăĠăžăžEăŸĂçğ■ætŇerŤæĹăŝĹăĒăŏžçŽDæŔŔăŔŮçŽDæŮžæşŤġijĹăžèpythonăŸŇçŽDætŇerŤæĹă
 6. ăžŇçz■ăžEăŸĂçğ■pyunităŖŇèĠăĹăĹăŇŮæĹăŝĹăžşăŔŕçŽDæŤŕæ■ŏăržæŌèæŮžæşŤæIJăçžĹăŸŇæIJŇæIJŇæŮĠçèČĵăđ'şçžŽætŇerŤăġijĂăŔŚăžŌăŸŽăžžăŖăŸăŸăžŽăŔŕçđ'žġijŇăŔŇæŮăæIJŇ
1. æşĹéĠ■ĵŕăžűèŤĹéĠŔ
 2. æIJL'æĹăžžűăĂžèĠăĹăĹăŇŮætŇerŤçŽDèĵŕăžűăĒăŔŸăĵăçăĹŔŕèĹŕăçĵçŽDăġijĂăŔŚèĹĠŇġijŇæĹŔăŕşèĠăũsénŸæŤĹéĂŔæŸŌçŽDăġijĂăŔŚ

CHAPTER 3

æŰřæL'Nå£néÄšä;£çŦÍ

3.1 ä;£çŦÍæ■ěéld'

æIJñæŰzæŘŘä;ŽäžEâšžžŎ PythonçŽĐPyunitçŽĐDemoçÍNâžRiijNâd' gâóúâRléIJÄèçAçŽzâ;Ŧx-utestçşzçşşiiijNâ£ôæŦzéĚ■ç;ôä£æAřâ■şâRřè£ŘèaŦä;£çŦÍläĀĆ

3.2 åóçæLũçhŕDemo

DemoâIJřaiÄiijŽ

<https://github.com/x-utest/xtest-python-demo.git>

çŽzâ;Ŧx-utestçşzçşşiiijNâRřäzçæšçæL;èĞlâuśeázçŽóéĚ■ç;ôæšçæL;iiijŽ

çĆzâĞzéazçŽóçŽĐèRIJâ■ŦiijŽ

添加项目				
项目名字	项目编号	项目描述	创建时间	操作
xtest-demo	590c2a0947fc894a51f9e616	xtest的演示demo	2017-05-05 15:30:17	⋮
<div><div>< 1 ></div><div>配置信息</div><div>修改</div><div>删除</div></div>				

æšççIJNæŦĞâóŽéĚ■ç;ôiiijŽ

xtest-demo	
project_id	590c2a0947fc894a51f9e616
app_id	3832f354872411e6a7c700163e006b26
app_key	38342936872411e6a7c700163e006b26

1. Create a file `apps/xtest_cfg.py` with the following content:

```
# todo: replace the following values with your own
project_id = '590c2a0947fc894a51f9e616'
app_id = '3832f354872411e6a7c700163e006b26'
app_key = '38342936872411e6a7c700163e006b26'
```

2. Create a file `start.py` with the following content:

3. Run the following command to start the application:

```
python start.py
```

4. The application will output the following:

```
(py3venv) harmo@harmo-pc:~/work/workspace/xtest-python-demo$ python demo.py
FFF...

=====
FAIL: test_first_hello_world_false (__main__.MyTestDemo)
Traceback (most recent call last):
  File "demo.py", line 65, in test_first_hello_world_false
    self.assertTrue(False, msg='Hello World')
AssertionError: False is not true : Hello World

=====
FAIL: test_first_hello_world_false2 (__main__.MyTestDemo)
Traceback (most recent call last):
  File "demo.py", line 71, in test_first_hello_world_false2
    self.assertTrue(False, msg='Hello World')
AssertionError: False is not true : Hello World

=====
```

(continues on next page)

(çzäyLéat)

```

FAIL: test_first_hello_world_false3 (__main__.MyTestDemo)
-----
↪--
Traceback (most recent call last):
  File "demo.py", line 77, in test_first_hello_world_false3
    self.assertTrue(False, msg='Hello WordæYřåd'sèt'ěçŽĎ')
AssertionError: False is not true : Hello WordæYřåd'sèt'ěçŽĎ
-----
↪--
Ran 6 tests in 0.000s

FAILED (failures=3)
{"code":200,"msg":"success","data":""}
    
```

ãĖüäy■ijNæIJĀăŔŎçŽĎijŽ

```

{"code":200,"msg":"success","data":""}
    
```

çŽĎ success èāĀYŎäyLäijäæLěăŚŁæIJ■āŁāŻĹæĹŔăĹ§

æĹ'ğèāNăŏNæŕŦăŔŎijNă■şăŔŕăIJĹèĠăũşçŽĎ x-utestçşzçz§
 çŦŇéİçIJNăĹŕçŽyăžŦçŽĎæLěăŚŁijNăzűèŁZèāNăĹĖăžŋ

CHAPTER 4

x-utestæŁěåŚŁæŎěåŘč

4.1 çşżçżşçőÄäzŃ

åşşåŘ■èûråŁDiiŹ

```
http://api.apiapp.cc/
```

èŁZäZçşżçżşæŎěåŘčåŘfäzēcŹt' æŎěårAèčĚåŁřsdka;Şäy■iiŹŃçZőåL'■æŘŘäŁZäžEåóŃæŢt'çŽĐpython

4.2 èód'èrAæŎěåŘč

åŁşèČ;iiŹŹçŢşæŁŘtokenäzěæŎŁæİČæŎěåŘčçŽĐèřČçŢí

èûråŁDiiŹ

```
/testdata/api-auth/
```

äijääĚěåŘČæŢriŹ

- app_id
- app_key

èûåśĆæŰzáşŢiiŹŹPOST

èŁŢåŽđåĀiiŹŹ

```
{  
  "code": 200,
```

(continues on next page)

```
"msg": "",
"data": {
  "user": null,
  "u_name": null,
  "user_id": null,
  "token": "7c45fc98391311e78e1a00163e006b26",
  "ip": "113.57.119.51",
  "user_agent": null,
  "rc_time": "2017-05-15 10:09:11",
  "c_type": 4,
  "app_id": "3832f354872411e6a7c700163e006b26",
  "last_use_time": "2017-05-15 07:22:54",
  "finger_prt": null,
  "c_name": "api",
  "id": "59190dc747fc890ec5ba42e0",
  "is_del": false,
  "cookie": null,
  "del_time": "2017-05-15 10:09:11"
}
```

åĖűäÿ■æIJĂéĜ■èçAçŽĐæŸříjŽ

- token `řřčz■èŁZèàŇæŎěáŘčèřČčŤlčŽĐæŎŁæİčăĀij`

4.3 æTřæ■óæŎěǎŘč

x-utestçşzçzşæŔŔä;ŽăŽĚæŁěăŚŁäyŁèąŃæŎěăŔčăĂĆ

æŎěåŔčèůŕå; Ď:

```
/testdata/create-test-data/
```

tokenèód'èrA: éIJĂèçAïijÑtokenæT;urléGÑéÍc

èrûæśĆæŨzâijŔ: POST

èrûæśĆăŔĆæȚř:

```
{
  "pro_id": "57a835c8c6e905166da94243",
  "pro_version": "1.3.4.5",
  "run_time": 51.77724599838257,
  "was_successful": false,
  "total": 88,
  "skipped": 7,
  "errors": 0,
  "failures": 10,
```

(continues on next page)

āsdāžŌēĠlāLāNŪætĠNērTēazçZōāRŌæIJšēŁRçõŪāĠžæIēçŽDæTŗæ■ōiijNāĒūāōČçŽDāLŽæYřæăĠāĠŌ
 äyŁäijāæTŗæ■ōæLŖāŁšāRŌçŽDēŁTāZđāĀij:

```
{ "code": 200, "msg": "success", "data": "" }
```

4.4 æRŖāRŪætĠNērTçžŞæđIJ

æIJnārRēŁČäžē pyunit ā■TāĒČætĠNērTæqEæđūäyžäĠNā■RiijNæIēārżætĠNērTæŁčāSŁæL' ĀéIJĀēçAçŽDā

4.4.1 äyžèēAāEĒāōž

TextTestResult çžŞæđIJäy■āNĒāRŋçŽDāēČäyNāEĒāōžiiijŽ

- errors éTŽèřřèřçžEäŁæAřāLŪèaĬ
- failures èŁRèqNād'sèt'èèřçžEäŁæAřāLŪèaĬ
- skipped èùšèŁĠçŽDèřçžEäŁæAřāLŪèaĬ
- testsRun èŁRèqNçŽDçTĬäĠNæĀžæTŗ

āĒūäĠŞāēČäyNāŽĠæL' Āçd' žiiijŽ

```
test_results = {TextTestResult} <unittest.runner.TextTestResult run=88 errors=0 failures=7>
  _mirrorOutput = {bool} False
  _moduleSetUpFailed = {bool} False
  _original_stderr = {TextIOWrapper} <_io.TextIOWrapper name='<stderr>' mode='w' encoding='UTF-8'>
  _original_stdout = {TextIOWrapper} <_io.TextIOWrapper name='<stdout>' mode='w' encoding='UTF-8'>
  _previousTestClass = {type} <class 'gttests.gtweb.test_fl_action.GtWebFullFlowTest'>
  _stderr_buffer = {NoneType} None
  _stdout_buffer = {NoneType} None
  _testRunEntered = {bool} False
  buffer = {bool} False
  descriptions = {bool} True
  dots = {bool} False
  errors = {list} []
  expectedFailures = {list} []
  failfast = {bool} False
  failures = {list} [(<gttests.units.test_api_status_code.GtStatusCode testMethod=test_getfrontlib_gt_
  separator1 = {str} '=====
  separator2 = {str} '=====
  shouldStop = {bool} False
  showAll = {bool} True
  skipped = {list} [(<gttests.units.test_static_file_release.GtStaticFileTest testMethod=test_canvas_js
  stream = {_WriteInDecorator} <unittest.runner._WriteInDecorator object at 0x10ceb5ef0>
  tb_locals = {bool} False
  testsRun = {int} 88
  unexpectedSuccesses = {list} []
```

4.4.2 āĒūäĠŞāēŁçŽŌ

äžē failures äyžäĠNā■RiijŽ

```

▼ failures = {list} [(<gttests.units.test_api_status_code.
  __len__ = {int} 7
  ▼ 0 = {tuple} (<gttests.units.test_api_status_code.GtSt
    __len__ = {int} 2
    ► 0 = {GtStatusCode} test_getfrontlib_gt_not32 (gttes
      1 = {str} 'Traceback (most recent call last):\n F

```

æIJætNërTçTlăNçŽDæRŘèfrijŽ

çijŮârŮ çt'câijTäyž0 çŽDæTřæ■ó:

- _testMethodName ætNërTãĜjæTřâR■çğř
- _testMethodDoc ætNërTãĜjæTřçŽDæŮĜæaçiijNèfŽéĜNéÍcäyÄèLnéŽLèfřæIJætNërTçŽDâLšèČjæLŠâ■řâĜžæIèçŽDâäEæäLéTŽèrräfaæArijŽ
- çijŮârŮ çt'câijTäyž1 çŽDæTřæ■óäĀĆ

4.4.3 æRŘârŮæŮzæşT

âržætNërTçzŞædIJèfŽèaŇâEĚâóžæRŘârŮiijŇâRŇæŮŮâLââĚèæÇäyŇâEĚâóziijŽ

1. ætNërTæL'ğèaŇæŮéŮt'

2. éażçŽóID

3. éażçŽóçL'ŁæIJnârŮ

èfŽèaŇæäĜâĜEâŇŮæäijâijRæLŠâNĚäĀĆ

äžççäArijŽ

```

def dict_encode_test_results(test_results, **kwargs):
    """
    âřEætNërTçzŞædIJèfŽèaŇjsonçijŮçäĀ
    :param test_results:
    :type test_results: unittest.TestResult
    :return:
    """

    run_time = kwargs.get('run_time', None)
    pro_id = kwargs.get('pro_id', None)
    pro_version = kwargs.get('pro_version', None)

    # äyžä;ŞéČlâĀĒ
    res_dict = dict(
        # was_successful=True if test_results.wasSuccessful() else_
        ↪False,
        was_successful=test_results.wasSuccessful(),
        total=test_results.testsRun,

```

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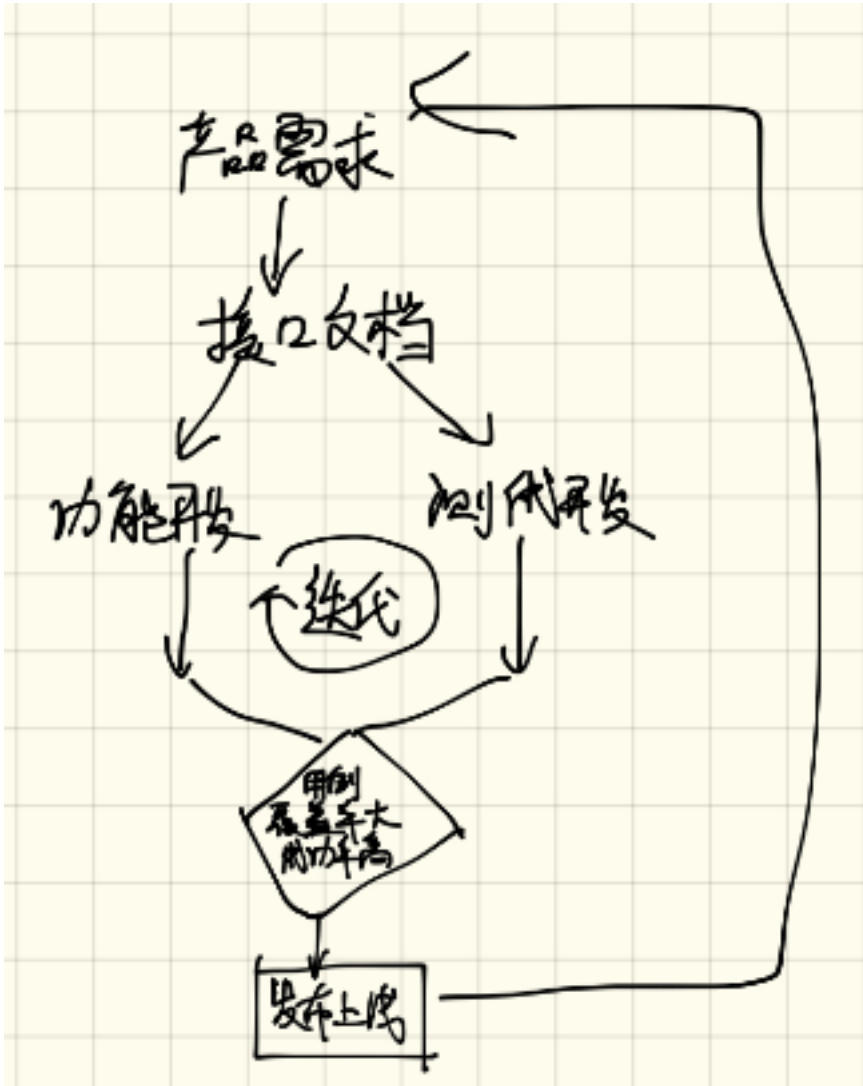
(continues on next page)

æIJL'æTĹLăũěä;IJætA

5.1 ãijĀāRŚāũěä;IJætA

ād' gāōŭéČ;ērTçĪĀæđDæČşèŁGèŁZæăũăÿĂçğ■ăũěä;IJætAĭijŽ

1. āŕRçzĎæĹŔāŚŸăÿĂèŭāijĀĭijŽèŏĵăăç;çşççzş
2. āŏŽăzL'ăë;æŌěāRčăzŭā;ćæĹŔăžęéĪćæŮĜæąč
3. āijĀāRŚăžzāŚŸèt' şèt' č è;ŕăzŭāŁşèČ;éążçŽŏ āŚŇætŇNērTăžzāŚŸèt' şèt' č
ætŇNērTçTĹă;ŇéążçŽŏĭijŇăŔŇæ■ăijĀāRŚ
4. éTŁæŮŭéŮŕ' çŽĎăŕRæ■ěăŁnéĀşāijĀāRŚāŚŇèŁ■ăžčĭijŇăŁşèČ;āŚŇçTĹă;ŇæTŕéČ;ăÿ■æŮ■ăćđéTŁ
5. āŁşèČ;éążçŽŏçŽĎçŽŏæăĜæŸŕèŏŕ' æL' ĀæIJL'çŽĎætŇNērTçTĹă;ŇéČ;éĂŽèŁĜ
6. æIJĂçzĹèĵ;æĹŔăŽcéŸşçŽĎéćĎæIJşçŽŏæăĜĭijŇéążçŽŏăÿŁçžŁ
ăũěçĪŇætAçĪŇăZĵ;ăęĆăÿŇĭijŽ



5.2 ætAçlNäijYåŁŁ

äzëäyŁauëä;IJætAçZDäë;äd'DäeCäyNijZ

1. äijÄäRŠäŠNætNërTäRŇæ■ëëfZëaŇijNäzzaŠYä;UälRæIJÄäd'gäNŮäl'çTl
2. èol'ärRæ■ëäŠNäŇnéÄšëf■äzçäyŁçžfæLRäyžaRrëC;ijNædAäd'gëZ■ä;ÖäžEëazçZōæUäëfSçZDæüLèA
3. ærRäyŷëfGçlNëC;äyëæäijçZDèol'ætNërTçTlā;Nāržè;fäzūèt'léGRëfZëaŇäžEæIJL'ætLæŁŁæÖğ
4. ætNërTçTlā;NçZDæÄzæTřäŠNæLRäŁšæÄzæTřäržè;fäzūëfZäyŷëzSçZŠä;çæLRäžEèL'fäë;çZD éGRäNŮ
5. æTt'äyŷlāijÄäRŠëfGçlNäŠNëfZäžëärzäžÖ
çZDäZcéYšæLRäŠYäžšæYr äōNäEŷéÄRæYÖ çZD
ætT'äyŷëfGçlNçTlāy'd'ärëëfäRräžëæRRëfřijZ

äy■æGĆæŁÄæIJr

1. ætNërT éPšäLl äijÄäRŠ
2. ætNërT éGRäNŮ äijÄäRŠ

CHAPTER 6

ǎšžæIJŋçŘĚèőžǎŠŇǎijǞǎŘŚèğĎěŇČ

6.1 æɐĆǎŋtɛŽLèǼř

çŽǒǎL'■è;řǎžúætǔNèřTèǎŇǎyŽçŽĎçŘĚèőžǎŠŇçzEǎĹĚécEǎššǎśĆǎĜžǎy■çl' ůiijŇǎyžèçAǎŇĚæNňǎžěǎyN

1. ǎĹd'ǎőŽætǔNèřT
2. ǎŎŇǎĹZætǔNèřT
3. ǎŞ■ǎžTætǔNèřT
4. ǎǾL'ǎĚlætǔNèřT

æIJŋæŮĜǎŘlèőš ǎĹd'ǎőŽætǔNèřT èŁŽǎylécEǎššçŽĎǎĚĚǎőžǎǞĆ

æL'ǎèřŞçŽĎ ǎĹd'ǎőŽætǔNèřT ǎŇĚæNňǎçĆǎyŇǎĜǎçszijŽ

1. çTŇéIcèĜlǎĹǎŇŮ
2. æŎěǎŘcèĜlǎĹǎŇŮ
3. ǎ■TǎĚĈèĜlǎĹǎŇŮ

ǎĚŮǎőðèŁŽǎřǎæŸř ǎĹĚǎśĆèĜlǎĹǎŇŮéĜŚǎ■ŮǎǎT ǎy■çŽĎǎyL'ǎśĆǎǞĆ

6.2.1 áĽĚásĆæđúædĎ

áĽ■éíċæŖŔáĽŕäžĚ è;řäzúčŽĎáĽĚásĆéĜŚā■ŮāāŦ çzŠædĎiijNæŸŕçŽōāĽ■äyæŧAäžŠèAŦç;ŚāĚñāŔŸ
āĴĽād'ŽæŮāæšŦæŌíēŹèĠāĽĽāŇŮætNērŦçŽĎè;řäzúçšzçzš;ijNād'gēČĽāĽĚéŮōécŸéČ;āĜžāĽĽēŹāĎĽäžĚŦ

6.2.2 çĽĽæĽJňčóaqŔĚ

æĽ'ÄērŠçŽĎçĽĽæĽJňčóaqŔĚiijNāĚŮāōđçŽōæāĜāŕsæŸŕiijŽæŸŮçāōēcñætNāržèšāāĈ
äyÄäyĽè;řäzúçšzçzšäzŌāijÄāĝŇāĽŕçzŠæĽšāōČŽĎāŔ■ā■ŮāšžæĽJňäyĽæŸŕäy■äijŽāŔŸçŽĎiijNā;ĚæŸŕ
ēcñætNāržèšāçĽĽæĽJňāŔŮçŽĎéĜ■ēçAæÄĝāĈæŕŔæñqæŔŔætNèÄŇäyŦéĽĽæçAèōŕā;Ŧād'ĜæāĽçŽĎè
çĽĽæĽJňāŔŮāĈ

āĚšāžŌçĽĽæĽJňāŔŮçŽĎāŚ;āŔ■æŮžāijŔiijNäyŽçŦNæĽĽ'āĴĽæĽŚæĽŔçĚšçŽĎæŮžæšŦiijNāĽĽæ■d'äy■

1. äĚĽēŕAçĽĽæĽJňāŔŮçŽĎāŦŕäyÄæÄĝ
2. äžŌā■ŮéíċæĎŔæÄĽāŔŕäžēçĽJňā;ŮāĽŕçĽĽæĽJňçŽĎæijŦèŹāŇēŹ■äžčéāžāžŔ

6.2.3 āšžçāÄāĽšèČ;

ā;ćæĽŔætAçŦĚçŽĎāŹæAŕætAçŽĎāĽ■æŔŔæŸŕiijŽæĽ'ÄæĽĽçŽĎèŹĜçĽŇār;éĜŔēČ;ād'šèĠāĽĽāŇŮā
āržäžŌætNērŦäžžāŚŸæĽēēŕŦiijNæĽĽ'äyĎ'æāŮäyĽJēēŹēĽāyŸéĜ■ēçAijŽ

1. ēcñætNāržèšāçĽĽæĽJňāŔŮāŔĽçĽ'žæÄĝāŹæAŕ
2. èŔŔēāŇçŽyāĚšçŌŕāćČāŔĽè;řäzūāžŠäĴĽèŦŮ

äžē æĽJ■āĽāçŇŕæŌēāŔč äĽJäyžēcñætNērŦāržèšāçŽĎ èĠāĽĽāŇŮætNērŦ
èŹĜçĽŇäyžäĴŇā■ŔiijNāijÄāŔŚäžžāŚŸāŹĚéāžèĜšārŚæŔŔäĴäyÄäyĽæŌēāŔčĽiijŽ

- æŸçd'žāžŦçŦĽçĽŇāžŔāĚēČĽāŹæAŕçŽĎæŌēāŔčāĈ

āržäžŌēŕæŌēāŔčçŽĎāōŽäzĽŦiijNäyŇéĽçžŽāĜžäyÄäyĽçd'žèŇČĽiijŽ

- æŌēāŔčāŔ■çĝŕ /app-info/
- èŕŮæśĆæŮžāijŔ GET
- èçŚāĚēāŔĆæŦŕ æŮā

èŹŦāŽĎāÄijĽiijŽ

```
{
  "code": 200,
  "msg": "",
  "data": {
    "server": "tornado",
    "req_time": "2017-04-19 15:38:46",
    "app_version": "3.17.04.18.1"
  }
}
```

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(çz■ăŸŁéął)

```
}
}
```

âŔĆæŦřèft' æŸŎřijŽ

- app_version æIJ■āŁąçńŕæŎěâŔčăžŦçŦĺĺŦăžŔçŁ'ŁæIJňâŔû
- server æIJ■āŁąăŽĺçśzăđŦ

ăęĆăđIJæIJL'ăĚŭăŏČéIJĂèęAăĚşæşĺçŽĐăŁăæAŕiijŦăŔŕăzěéŽŔæŮŭæŁ'ŦăşŦăŸŁăŎzăĂĆ

æIJňæŮĜæIJĂăĚşæşĺçŽĐăĚăŏzæŸŕ **app_version** æŁ'Ăèaĺçđ'žçŽĐèćnætŦŦăŕzèşaçŁ'ŁæIJňăŁăæAŕ
iijŦăŦIJăŸŁéĺççŽĐæŎěâŔčăŸ■æIJL'æŁ'ĂăſşçŎŕăĂĆ

CHAPTER 7

åóćæŁųçńréŻĘæŁŔæijŦçd'ż

7.1 æęĆèĚř

éŠŁárzçŻóâŁ■çŻĎäÿĂăžZăžŦèřęŻĎèĠłŁłăŦŮăũăăĚüüijŦæŁŚăžnéČĭæŔŔăĭZăžĘçŻÿăžŦçŻĎDemo

7.2 Pyunit

éązçŻóäÿzéąŦijŻ

```
https://github.com/x-utest/xtest-python-demo.git
```

äÿŦèĭĭæŮżăijŦijŻ

```
git clone https://github.com/x-utest/xtest-python-demo.git
```

æĎŖěřćijŻ

- @HarmoăŞŁèŎń

7.3 RobotFramework

todo

æĎŖěřćijŻ

- @abbott

7.4 Junit

todo

7.5 TestNG

xtest-testng-sdk 1.0.0

```
https://github.com/x-utest/xtest-testng-sdk
```

1.0.0 Release
Release

```
https://github.com/x-utest/xtest-testng-sdk/releases
```

1.0.0

- @x-utest

client-java-testng-demo 1.0.0

```
https://github.com/x-utest/client-java-testng-demo
```

1.0.0 Release

1.0.0

- @x-utest

7.6 doraemon

1.0.0 Release

1.0.0 Release

1.0.0

```
git clone git@github.com:TesterlifeRaymond/doraemon.git
```

1.0.0

- @mockito

7.7 1.0.0

1.0.0 Release

CHAPTER 8

8.1 `python3 -m pip install --user --upgrade pip`

8.1 `python3 -m pip install --user --upgrade pip`

æCædIJæIJL'ærzætNerTajAaRSèfYæsaæEëéUlcZDärRçZçTlæLüijNèfZéGNélcæIJL'æE'èt'zcZDçsçā
āšžāžŎpythoñçZDāžŠèAŦç;Šè;řazúætNerTajAaRSrijLèGlaLlāNŮætNerTijL'-
āÉléZEāŘL

<http://www.cnblogs.com/beer/p/6381327.html>

èfZāžZæŮGæçāŠNètDæŮZèZçDūæYřāE'èt'zïijNā;EæYřā'ēčsāŘná;IJèAĖçZDāfCèqĀijNèĀŮæŮ

8.2 `bugæšGæLæLŮæTžèfZāžžèŏŏ`

æRŘāžd'issues

<https://github.com/x-utest/xtest-server/issues>

8.3 `āžd'ætAQQççd'`

äyĀçZt'èNęāžŎæšqæIJL'æŎčāRçèGlaLlāNŮéqzçZōāōðæLŸçzRéŦçZDæIJNāRŦijNæñcéfŎāLāāĖčāŠ
æCædIJæIJL'æĖt'ēüčäyĀètūāžd'ætAçZDçZDæIJNāRŦijNāRřazčāLāāĖč
āžŠèAŦç;Šè;řazúætNerTajAaRSQQççd' iijZ207548681

8.4 ǵóaqǾŘĚáŚŸQQ

- HarmoaſŁèŎń
- QQiijŽ1295351490

CHAPTER 9

èóìèóžç¿d'íijŽ

QQç¿d'íijŽ547955053íijŽNæñcèŁŒæŘIJçt' cáŁääĚěíijA
æŁÚæL' náæŘRäžŇçzt' çăAăŁăç¿d'íijŽ



xtest系统-测试开发平台
扫一扫二维码，加入群聊。