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# AITA

## 软件工程专业综合项目测试报告

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1652714 孙浩然

1652763 陈泽徽

1652751 梁钧清

1553545 王嵩豪

1652708 周泽林

1652698 康晓博

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# 引言

## 背景与依据

AITA 系统设计说明书

AITA 需求分析文档

AITA 项目方案书

AITA 测试计划书（在阅读本文当前，请务必阅读测试计划书）

## 测试模块

本项目共对三个模块进行了测试，进行测试的三个模块分别为：

1. 用户认证模块
2. 专注度模块
3. 用户信息模块

## 测试代码结构

本项目的全部测试代码全部在项目根目录 AITA 目录下的 tests 文件夹中：

- |                  |                |
|------------------|----------------|
| 1. config.py     | 对测试环境的环境变量进行设置 |
| 2. test_auth.py  | 对用户认证模块进行测试    |
| 3. test_usr.py   | 对用户信息模块进行测试    |
| 4. test_focus.py | 对专注度模块进行测试     |

# 测试结果

## 测试程序运行结果

```
➔ AITA git:(test) X python -m pytest tests -v
===== test session starts =====
platform darwin -- Python 3.7.2, pytest-4.5.0, py-1.8.0, pluggy-0.11.0 -- /Users/ludanxer/.pyenv/versions/3.7.2/bin/python
cachedir: .pytest_cache
rootdir: /Users/ludanxer/Programs/AITA
collected 29 items

tests/test_auth.py::test_sign_up[--Require Username] PASSED [ 3%]
tests/test_auth.py::test_sign_up[username--Require Password] PASSED [ 6%]
tests/test_auth.py::test_sign_up[init-rightpwd-Taken] PASSED [ 10%]
tests/test_auth.py::test_sign_up[test-rightpwd-Success] PASSED [ 13%]
tests/test_auth.py::test_sign_in[--false] PASSED [ 17%]
tests/test_auth.py::test_sign_in[username--false] PASSED [ 20%]
tests/test_auth.py::test_sign_in[init-rightpwd-true] PASSED [ 24%]
tests/test_auth.py::test_logout PASSED [ 27%]
tests/test_focus.py::test_add_focus[-10-0-0-123-Invalid Emotion Input] PASSED [ 31%]
tests/test_focus.py::test_add_focus[10-0-0-123-Success] PASSED [ 34%]
tests/test_focus.py::test_add_focus[110-0-0-123-Invalid Emotion Input] PASSED [ 37%]
tests/test_focus.py::test_add_focus[10--30-0-123-Invalid Gaze Input] PASSED [ 41%]
tests/test_focus.py::test_add_focus[10-30-0-123-Invalid Gaze Input] PASSED [ 44%]
tests/test_focus.py::test_add_focus[10-0--30-123-Invalid Gaze Input] PASSED [ 48%]
tests/test_focus.py::test_add_focus[10-0-30-123-Invalid Gaze Input] PASSED [ 51%]
tests/test_focus.py::test_add_focus[10-10-10-111-Success] PASSED [ 55%]
tests/test_focus.py::test_get_focus[111-111] PASSED [ 58%]
tests/test_focus.py::test_get_focus[234-None] PASSED [ 62%]
tests/test_focus.py::test_get_avg_focus[111-111] PASSED [ 65%]
tests/test_focus.py::test_get_avg_focus[234-None] PASSED [ 68%]
tests/test_focus.py::test_invalid_usr PASSED [ 72%]
tests/test_focus.py::test_rate[111--3-Invalid Rating] PASSED [ 75%]
tests/test_focus.py::test_rate[111-3-Success] PASSED [ 79%]
tests/test_focus.py::test_rate[111-8-Invalid Rating] PASSED [ 82%]
tests/test_focus.py::test_rate[234-3-None] PASSED [ 86%]
tests/test_usr.py::test_get_usr_info PASSED [ 89%]
tests/test_usr.py::test_update_usr_info PASSED [ 93%]
tests/test_usr.py::test_update_usr_pwd PASSED [ 96%]
tests/test_usr.py::test_get_usr_pic PASSED [100%]

===== 29 passed in 3.16 seconds =====
```

## 测试模块覆盖率

```
➔ AITA git:(test) coverage report -m aita/api/usr.py aita/api/focus.py aita/auth.py
Name      Stmts  Miss  Cover   Missing
-----
aita/api/focus.py    91      0   100%
aita/api/usr.py      39      0   100%
aita/auth.py         44      0   100%
-----
TOTAL             174      0   100%
```

## 全部模块覆盖率

```
➔ AITA git:(test) coverage report -m
Name      Stmts  Miss  Cover   Missing
-----
aita/_init_.py       14      1    93%    13
aita/api/_init_.py    7      0   100%
aita/api/comment.py   19     11    42%    11-20, 26-33
aita/api/completeness.py 32     24    25%    9-21, 26-39
aita/api/course.py    81     58    28%    13-20, 26-35, 41-56, 63-69, 78-83, 89-99, 104-108, 113-116, 122-136
aita/api/focus.py    91      0   100%
aita/api/usr.py       39      0   100%
aita/auth.py         44      0   100%
aita/db.py            17      1    94%    10
config.py             11      0   100%
tests/conftest.py     30      0   100%
tests/test_auth.py    14      0   100%
tests/test_focus.py   26      0   100%
tests/test_usr.py     56      0   100%
-----
TOTAL             481     95    80%
```