

# QS Maßnahme Automatische Tests, Iteration 5



TECHNISCHE  
UNIVERSITÄT  
DARMSTADT

Gruppe 40  
25.1.2021

## 1 Information

Ausgeführt von	Dennis Weinberger
Datum	25. Januar 2021
Ergebnis	Nicht bestanden, Coverage 82%
Betroffene User Stories	31, 36

## 2 Erläuterung

Dieser Beleg bezieht sich auf die User Stories 31 und 36. Es wurden die ersten grundlegenden Chat-Funktionen im Backend getestet.

Das Python-Programm Coverage verfehlt leider viele der Statements, weshalb die Code Coverage beim Router und Controller komplett fehlt (siehe Projektdoku).

## 3 Ergebnis

```
(tsam_venv) C:\Users\denni\PycharmProjects\tsam\backend>pytest --cov --cov-config=.coveragerc
```

```
=====
platform win32 -- Python 3.7.2, pytest-6.1.2, py-1.9.0, pluggy-0.13.1
rootdir: C:\Users\denni\PycharmProjects\tsam\backend
plugins: cov-2.11.1
collected 91 items
```

```
testing\test_auth.py .....
testing\test_candidate_chat.py ..F..
testing\test_candidate_skill_grade.py .....
testing\test_essential_skill.py .....
testing\test_file.py .....
testing\test_interview_question.py .....
testing\test_job.py .....
testing\test_marker.py .....
testing\test_role.py ....
testing\test_source.py ....
testing\test_transaction.py ....
testing\test_user.py .....
```

```
=====
-----
args2 = (), kwargs2 = {}, data = {'password': 'admin', 'scope': 'chat_get ', 'username': 'admin'}, response
json_body = {'access_token': 'CcnFL0e3tCaUoM5qREYb0y87rtRw4rV-LXGT0qI8IqjbTQAMb2eRzCtxenQLLPEqRJmBNrR4uJ
token = 'CcnFL0e3tCaUoM5qREYb0y87rtRw4rV-LXGT0qI8IqjbTQAMb2eRzCtxenQLLPEqRJmBNrR4uJEPX6XwXnhXoA', header
```

```

def wrapper(*args2, **kwargs2):
    data = {
        "username": self.username,
        "password": self.password,
        "scope": scopes_string
    }

    response: Response = self.session.post(self.token_path, data=data)
    assert response.status_code == 201
    json_body: dict = json.loads(response.text)
    assert 'access_token' in json_body
    assert len(json_body.get('access_token')) > 64
    token = json_body.get('access_token')
    headers = {
        "Authorization": 'Bearer ' + token
    }

    sleep(self.request_delay)
> return func(headers=headers, *args2, **kwargs2)

```

testing\decorators\oauth2.py:59:

headers = {'Authorization': 'Bearer CcnFL0e3tCaUoM5qREYb0y87rtRw4rV-LXGT0qI8IqjbTQAMb2eRzCtxenQLLPEqRJmB

```

    @request_assert(200)
    @oauth2(scopes=['chat_get'])
    def test_read_chat(headers):
        response = session.get(root_url + "chats/" + str(candidate_chat_id), headers=headers)
> assert response
E assert <Response [500]>

```

testing\test\_candidate\_chat.py:68: AssertionError

----- coverage: platform win32, python 3.7.2-final-0 -----			
Name	Stmts	Miss	Cover
__init__.py	0	0	100%
controllers\__init__.py	0	0	100%
controllers\candidate_job.py	46	32	30%
controllers\essential_skill.py	61	44	28%
controllers\exceptions\CandidateJobException.py	4	1	75%
controllers\exceptions\ControllerException.py	3	1	67%
controllers\exceptions\EssentialSkillException.py	4	1	75%
controllers\exceptions\JobException.py	4	1	75%
controllers\exceptions\SourceException.py	4	1	75%
controllers\exceptions\UserException.py	4	1	75%
controllers\exceptions\UserRoleException.py	4	1	75%
controllers\exceptions\UserUserException.py	4	1	75%
controllers\exceptions\__init__.py	0	0	100%
controllers\job.py	53	32	40%
controllers\user.py	98	62	37%
controllers\user_role.py	41	25	39%
controllers\user_user.py	35	21	40%
defaults.py	3	0	100%
exceptions\__init__.py	0	0	100%
exceptions\http.py	19	8	58%
models\Base.py	2	0	100%
models\CandidateChat.py	12	0	100%
models\CandidateJob.py	9	0	100%

models\CandidateSkillGrade.py	15	2	87%
models\Chat.py	6	0	100%
models\ChatUser.py	6	0	100%
models\EssentialSkill.py	17	3	82%
models\File.py	11	1	91%
models\InterviewQuestion.py	9	1	89%
models\Job.py	10	1	90%
models\Marker.py	8	0	100%
models\MarkerRectangle.py	10	0	100%
models\Message.py	9	0	100%
models\Transaction.py	10	0	100%
models\__init__.py	17	0	100%
models\security\Permission.py	8	0	100%
models\security\Role.py	6	0	100%
models\security\RolePermission.py	9	0	100%
models\security\Token.py	10	0	100%
models\security\TokenPermission.py	9	0	100%
models\security\User.py	17	1	94%
models\security\UserRole.py	9	0	100%
models\security\UserUser.py	9	0	100%
models\security\__init__.py	8	0	100%
settings.py	26	2	92%
testing\__init__.py	0	0	100%
testing\decorators\__init__.py	0	0	100%
testing\decorators\assertions.py	10	0	100%
testing\decorators\oauth2.py	38	0	100%
testing\test_auth.py	16	0	100%
testing\test_candidate_chat.py	48	5	90%
testing\test_candidate_skill_grade.py	81	0	100%
testing\test_essential_skill.py	83	0	100%
testing\test_file.py	43	0	100%
testing\test_interview_question.py	92	0	100%
testing\test_job.py	48	0	100%
testing\test_marker.py	40	0	100%
testing\test_observation.py	0	0	100%
testing\test_role.py	24	0	100%
testing\test_settings.py	8	0	100%
testing\test_source.py	52	0	100%
testing\test_transaction.py	38	0	100%
testing\test_user.py	132	0	100%
utils\__init__.py	0	0	100%
utils\security\__init__.py	0	0	100%
utils\security\security_functions.py	12	2	83%
-----			
TOTAL	1414	250	82%

```
=====
FAILED testing/test_candidate_chat.py::test_read_chat - assert <Response [500]>
===== 1 t
```

```
(tsam_venv) C:\Users\denni\PycharmProjects\tsam\backend>pytest --cov --cov-config=.coveragerc
```

```
=====
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```

```

testing\test_essential_skill.py .....
testing\test_file.py .....
testing\test_interview_question.py .....
testing\test_job.py .....
testing\test_marker.py .....
testing\test_role.py ....
testing\test_transaction.py ....
testing\test_user.py .....

```

```

=====
-----

```

```

args2 = (), kwargs2 = {}, data = {'password': 'admin', 'scope': 'chat_get ', 'username': 'admin'}, response
json_body = {'access_token': 'ykJ51-hn8DsTVCEgbVV4fFzITh5ke5HJaMUG_AYF41XcWSsogAfd2-R0a6vvxeXcA7y4PwKqVf
token = 'ykJ51-hn8DsTVCEgbVV4fFzITh5ke5HJaMUG_AYF41XcWSsogAfd2-R0a6vvxeXcA7y4PwKqVf4Zq00VrTWLFQ', header

```

```

def wrapper(*args2, **kwargs2):
    data = {
        "username": self.username,
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    response: Response = self.session.post(self.token_path, data=data)
    assert response.status_code == 201
    json_body: dict = json.loads(response.text)
    assert 'access_token' in json_body
    assert len(json_body.get('access_token')) > 64
    token = json_body.get('access_token')
    headers = {
        "Authorization": 'Bearer ' + token
    }

    sleep(self.request_delay)
> return func(headers=headers, *args2, **kwargs2)

```

```

testing\decorators\oauth2.py:59:

```

```

-----

```

```

headers = {'Authorization': 'Bearer ykJ51-hn8DsTVCEgbVV4fFzITh5ke5HJaMUG_AYF41XcWSsogAfd2-R0a6vvxeXcA7y4

```

```

    @request_assert(200)
    @oauth2(scopes=['chat_get'])
    def test_read_chat(headers):
        response = session.get(root_url + "chats/" + str(candidate_chat_id), headers=headers)
> assert response
E assert <Response [500]>

```

```

testing\test_candidate_chat.py:68: AssertionError

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```

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controllers\exceptions\CandidateJobException.py  4      1    75%
controllers\exceptions\ControllerException.py    3      1    67%
controllers\exceptions\EssentialSkillException.py 4      1    75%

```

controllers\exceptions\JobException.py	4	1	75%
controllers\exceptions\UserException.py	4	1	75%
controllers\exceptions\UserRoleException.py	4	1	75%
controllers\exceptions\UserUserException.py	4	1	75%
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testing\test_transaction.py	38	0	100%
testing\test_user.py	132	0	100%
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utils\security\__init__.py	0	0	100%
utils\security\security_functions.py	12	2	83%
-----			
TOTAL	1358	249	82%

---

```
=====
FAILED testing/test_candidate_chat.py::test_read_chat - assert <Response [500]>
===== 1 t
```

---

## 4 Konsequenzen

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Das Chat-Backend musste überarbeitet werden, bevor es in das Produkt eingebaut werden kann. Da der Bug nur ein kleiner Fehler war, konnte er von Dennis schnell gefunden und direkt behoben werden. Dennis hat später Max auf den Fehler hingewiesen, damit man diesen in Zukunft vermeiden kann. Nach Absprache und Sichten des neuen Codes wurde das Chat-Grundgerüst dann in den Hauptbranch gemerget.