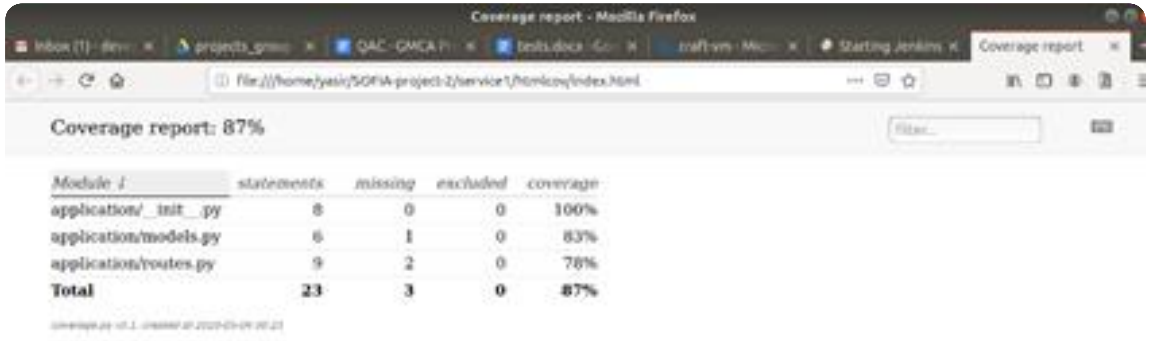
Testing

. Unit testing and integration testing using pytest and selenium.
. Coverage reports and percentages

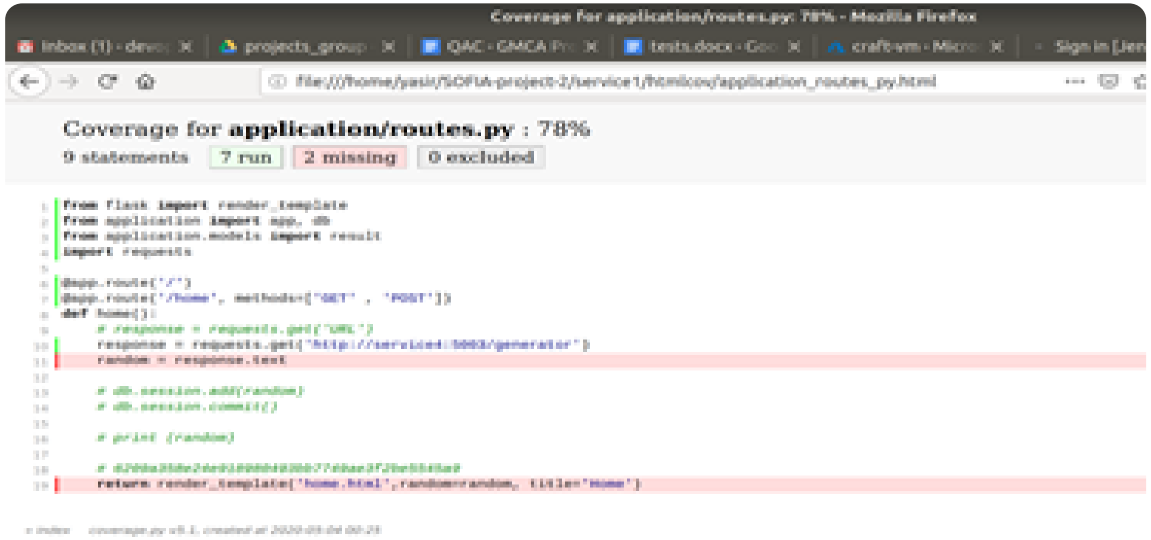
Integration testing Service One



Coverage report: 87%

Module ↓	*statements*	*missing*	*excluded*	*coverage*
application/__init__.py	8	0	0	100%
application/models.py	6	1	0	83%
application/routes.py	9	2	0	78%
Total	**23**	**3**	**0**	**87%**

coverage.py v5.1, created at 2020-05-04 00:23



Coverage for application/routes.py: 78% - Mozilla Firefox
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QAC - GMCA Pr
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file:///home/yasir/SOFIA-project-2/service1/htmlcov/application_routes_py.html

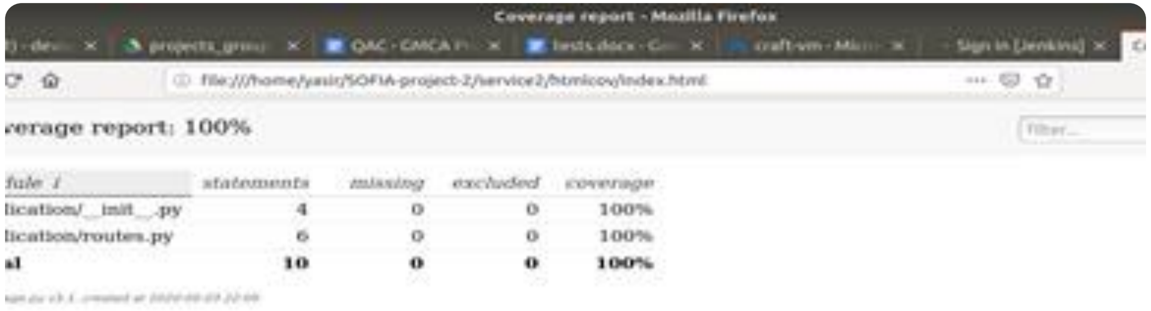
Coverage for **application/routes.py** : 78%

9 statements 7 run 2 missing 0 excluded

```
from flask import render_template
from application import app, db
from application.models import result
import requests

@app.route('/')
@app.route('/home', methods=['GET' , 'POST'])
def home():
    # response = requests.get('URL')
    response = requests.get('http://service4:5003/generator')
    random = response.text

    # db.session.add(random)
    # db.session.commit()

    # print (random)

    # [illegible]
    return render_template('home.html',random=random, title='Home')
```

« index coverage.py v5.1, created at 2020-05-04 00:23

Unit Testing Service Two

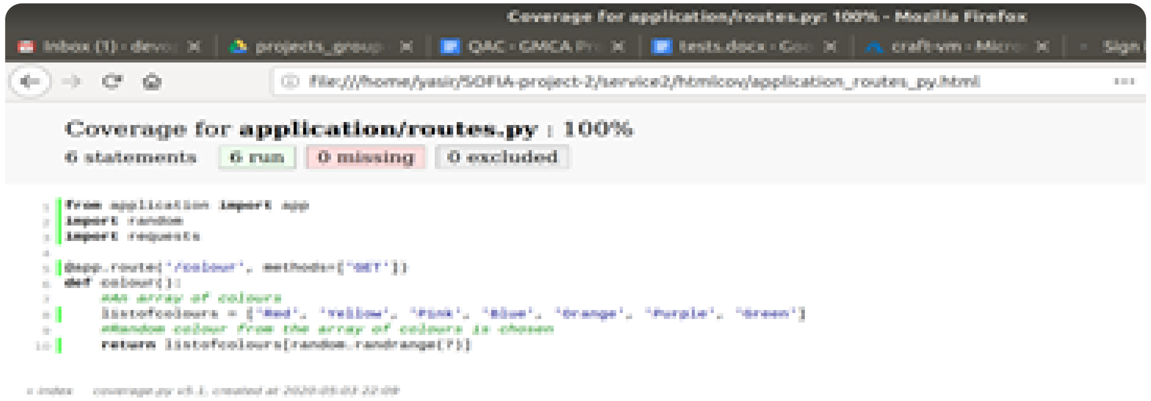


file:///home/yasir/SOFIA-project-2/service2/htmlcov/index.html

verage report: 100%

ule ↓	statements	missing	excluded	coverage
lication/__init__.py	4	0	0	100%
lication/routes.py	6	0	0	100%
al	**10**	**0**	**0**	**100%**

age.py v5.1, created at 2020-05-03 22:08



file:///home/yasir/SOFIA-project-2/service2/htmlcov/application_routes_py.html

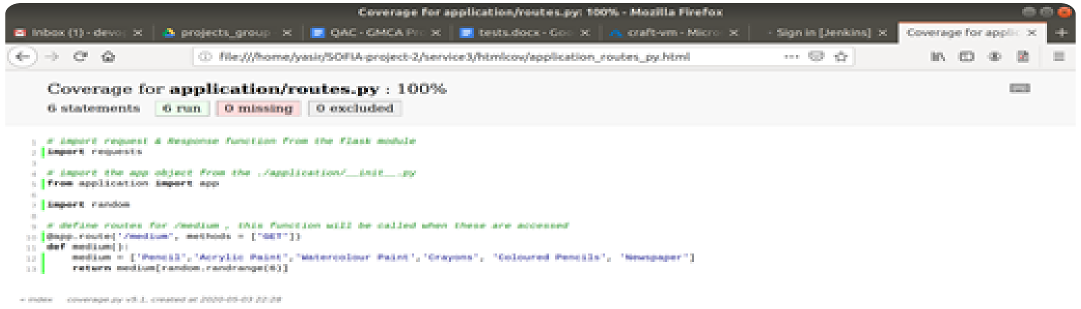
Coverage for **application/routes.py** : 100%

6 statements   6 run   0 missing   0 excluded

```
from application import app
import random
import requests

@app.route('/colour', methods=['GET'])
def colour():
    #An array of colours
    listofcolours = ['Red', 'Yellow', 'Pink', 'Blue', 'Orange', 'Purple', 'Green']
    #Random colour from the array of colours is chosen
    return listofcolours[random.randrange(7)]
```

« index   coverage.py v5.1, created at 2020-05-03 22:08

Unit Testing Service Three


Coverage for application/routes.py: 100% - Mozilla Firefox
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file:///home/yasir/SOFIA-project-2/service3/htmlcov/application_routes_py.html

Coverage for **application/routes.py** : 100%

6 statements 6 run 0 missing 0 excluded

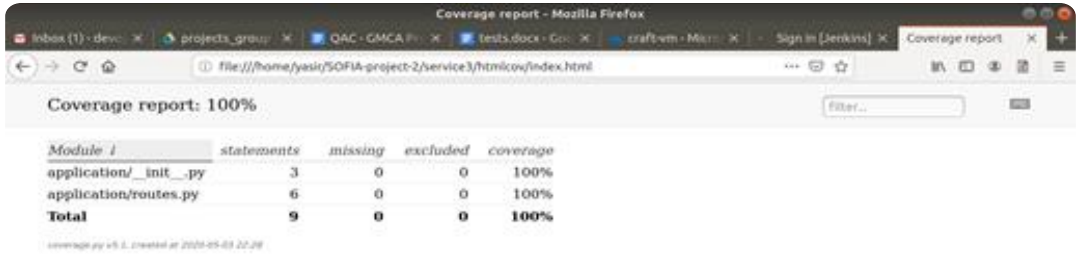
```
# import request & Response function from the flask module
import requests

# import the app object from the ./application/__init__.py
from application import app

import random

# define routes for /medium , this function will be called when these are accessed
@app.route('/medium', methods = ["GET"])
def medium():
    medium = ['Pencil','Acrylic Paint','Watercolour Paint','Crayons', 'Coloured Pencils', 'Newspaper']
    return medium[random.randrange(6)]
```

« index coverage.py v5.1, created at 2020-05-03 22:28

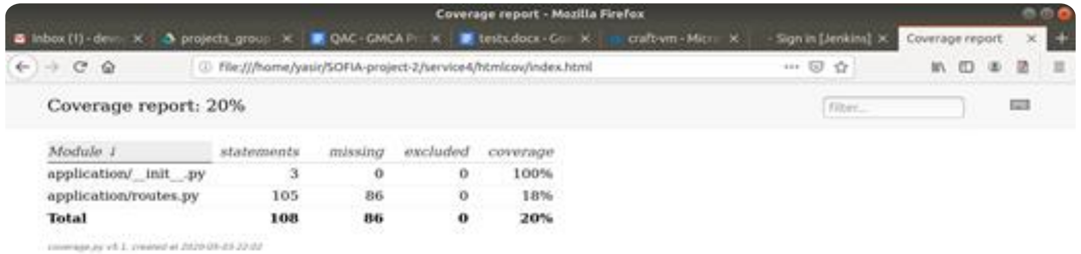


Coverage report: 100%

Module ↓	*statements*	*missing*	*excluded*	*coverage*
application/__init__.py	3	0	0	100%
application/routes.py	6	0	0	100%
Total	**9**	**0**	**0**	**100%**

coverage.py v5.1, created at 2020-05-03 22:28

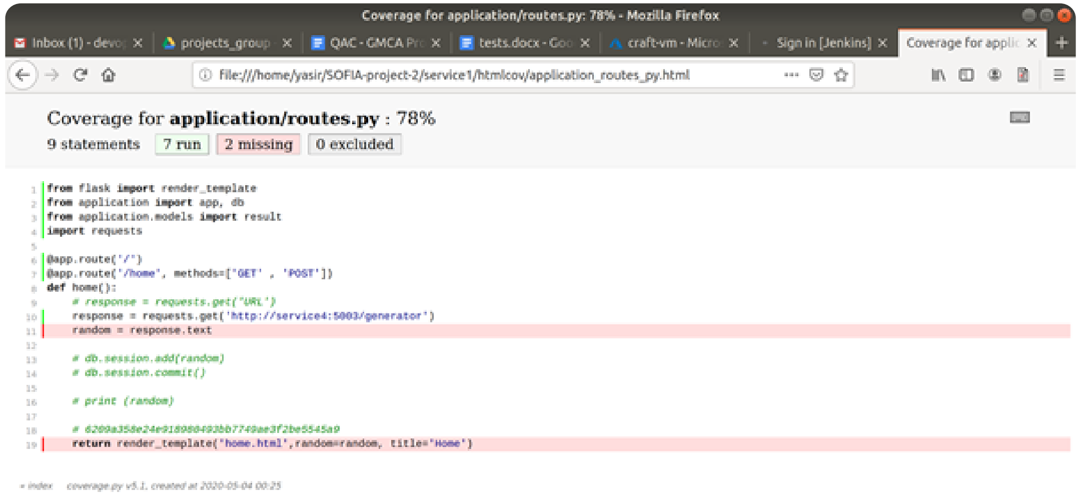
Unit Testing Service Four



Coverage report: 20%

Module ↓	statements	missing	excluded	coverage
application/__init__.py	3	0	0	100%
application/routes.py	105	86	0	18%
Total	**108**	**86**	**0**	**20%**

coverage.py v5.1, created at 2020-05-03 22:02


Coverage for application/routes.py: 78% - Mozilla Firefox
Inbox (1) - devo
projects_group
QAC - GMCA Pr
tests.docx - Goo
craft-vm - Micro
Sign in [Jenkins]
Coverage for applic
file:///home/yasir/SOFIA-project-2/service1/htmlcov/application_routes_py.html

Coverage for **application/routes.py** : 78%

9 statements 7 run 2 missing 0 excluded

```
from flask import render_template
from application import app, db
from application.models import result
import requests

@app.route('/')
@app.route('/home', methods=['GET' , 'POST'])
def home():
    # response = requests.get('URL')
    response = requests.get('http://service4:5003/generator')
    random = response.text

    # db.session.add(random)
    # db.session.commit()

    # print (random)

    # 6209a358e24e918980493bb7749ae3f2be5545a9
    return render_template('home.html',random=random, title='Home')
```

« index coverage.py v5.1, created at 2020-05-04 00:25