A. Automation testing

For automation test, there are 6 test cases in doctorAPI/tests/test_doctorView.py. First create the mock data in setUp function, then have test on

- 1. Test the doctor list can return all doctors
- 2. Test doctor detail can return 1 specified doctor when given id
- 3. Test the doctor list can filter district
- 4. Test the doctor list can filter language
- 5. Test the doctor list can filter category6. Test the doctor list can filter price

All 6 cases passed.

```
(TestEnv) 23:14:32 MacBookPro ~/Dev/necktie/doctorapi $ python manage.py test
Creating test database for alias 'default'...
System check identified no issues (0 silenced).
Ran 6 tests in 0.060s
Destroying test database for alias 'default'...
```

B. Manual testing

There are also some end to end manual testing made.

1. Go to admin Django panel, create some dummy data on Doctor, Language, Service class, then visit http://127.0.0.1:8000/doctor/ in browser.

doctor	district	language	service
Doctor 1	НК	CNT, ENG	PHY/300
Doctor 2	NT	MDR	
Doctor 3	IL	ENG, CNT	PHY/100
Doctor 4	НК	CNT, MDR, ENG	
Doctor 5	NT	CNT, MDR	DEN/600, PHY/100

Doctor list function can return all 5 doctors.

2. Get specified doctor id=3 can successfully return doctor 3.

```
GET /doctor/3/

HTTP 200 OK
Allow: GET, PUT, PATCH, DELETE, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

{
    "id": 3,
    "doctorID": "HK0003",
    "name": "d3",
    "contactNumber": "123",
    "address": "123",
    "openingHours": "123",
    "district": "IL"
}
```

3. Filter all Hong Kong Island doctors by specifying district = HK can return doctor 1, 4.

```
GET /doctor/?district=HK
HTTP 200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept
       "id": 1,
        "doctorID": "HK0001",
        "name": "Doctor Lee",
        "contactNumber": "12345678",
       "address": "address abc",
       "openingHours": "8am-5pm",
       "district": "HK"
   },
       "id": 4,
        "doctorID": "HK0004",
       "name": "d4",
       "contactNumber": "123",
        "address": "123",
        "openingHours": "234",
        "district": "HK"
```

4. Filter all HK and mandarin doctors can return doctor 4.

```
GET /doctor/?district=HK&language=MDR

HTTP 200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

[
         "id": 4,
         "doctorID": "HK0004",
         "name": "d4",
         "contactNumber": "123",
         "address": "123",
         "openingHours": "234",
         "district": "HK"
    }
]
```

5. Filter all dental doctors can return doctor 5.

```
GET /doctor/?category=DEN

HTTP 200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

[

    "id": 5,
    "doctorID": "HK0005",
    "name": "123",
    "contactNumber": "123",
    "address": "123",
    "openingHours": "123",
    "district": "NT"
}
```

6. Filter all physio-therapy doctors within \$300 - \$600 can return doctor 1.

```
GET /doctor/?price_range=300,600&category=PHY

HTTP 200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

[
        "id": 1,
        "doctorID": "HK0001",
        "name": "Doctor Lee",
        "contactNumber": "12345678",
        "address": "address abc",
        "openingHours": "8am-5pm",
        "district": "HK"
    }
]
```