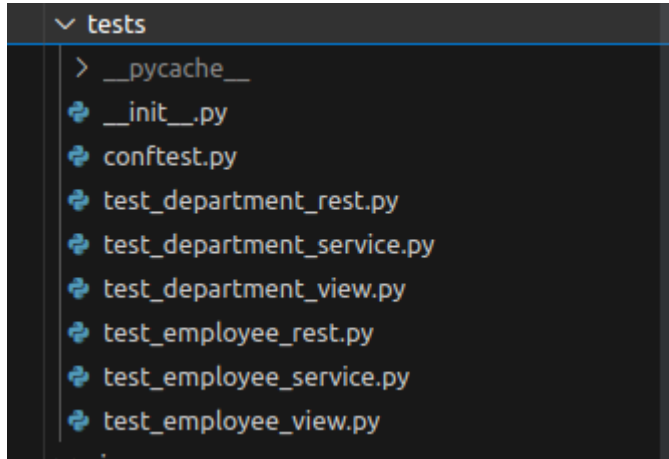


Our team have developed 88 tests for both REST and viewers. Tests can be found here

[https://github.com/nazarkychma/department\\_app/tree/main/department\\_app/tests](https://github.com/nazarkychma/department_app/tree/main/department_app/tests)



Both negative and positive cases, where tested.

Also integration tests were created by creating some temp environment for them and seeding data before run

```

n_kychnia, 18 months ago | 1 author (n_kychnia)
class BaseCase(unittest.TestCase):
    """
    This is test case to inherit
    Creates environment to test
    """
    def setUp(self) → None:
        """
        Called before each test
        Setting up all needed for testing
        """
        self.app = create_app(TestConfig)
        self.app.app_context().push()
        self.client = self.app.test_client()
        db.init_app(self.app)
        db.create_all()
        seed_data()

    def tearDown(self) → None:
        """
        Called after each test
        Closing db session and drops all the data
        """
        db.session.remove()
        db.drop_all()

```

```

def seed_data():
    dep1 = Department(id=1, name="Test1")
    dep2 = Department(id=2, name="Test2")
    dep3 = Department(id=3, name="Test3")
    dep4 = Department(id=4, name="Test4")

    db.session.add(dep1)
    db.session.add(dep2)
    db.session.add(dep3)
    db.session.add(dep4)

    emp1 = Employee(id=1, first_name="Test", last_name="Test", salary=100, department_id=1)
    emp2 = Employee(id=2, first_name="Test", last_name="Test", salary=100, birthdate=datetime.date(2017, 11, 6), department_id=2)
    emp3 = Employee(id=3, first_name="Test3", last_name="Test", salary=100, birthdate=datetime.date(2002, 11, 6), department_id=3)
    emp4 = Employee(id=4, first_name="Test", last_name="Test", salary=100, birthdate=datetime.date(2005, 11, 6), department_id=4)
    emp5 = Employee(id=5, first_name="TestView", last_name="Test", salary=100, department_id=1)

    db.session.add(emp1)
    db.session.add(emp2)
    db.session.add(emp3)
    db.session.add(emp4)
    db.session.add(emp4)
    db.session.add(emp5)
    db.session.commit()

```

Tests can be executed automatically by running **coverage run -m unittest discover** command in root folder. You can also create coverage report by running

## coverage report

```
comet 0.10.2 typing_extensions 4.0.1 orjson 1.20.7 wrapt 1.10.0 zipp 0.0.0
• (venv) n_kychma@G3-3579:~/Desktop/department_app$ coverage run -m unittest discover
.....
-----
Ran 88 tests in 2.638s

OK
• (venv) n_kychma@G3-3579:~/Desktop/department_app$ coverage report
Name                               Stmts  Miss  Cover
-----
department_app/__init__.py          32      1    97%
department_app/config_files/__init__.py    2      0   100%
department_app/config_files/config.py     12      0   100%
department_app/helpers/__init__.py         0      0   100%
department_app/helpers/populate_db.py     25      0   100%
department_app/log/__init__.py            1      0   100%
department_app/log/logger_config.py       11      0   100%
department_app/models/__init__.py         0      0   100%
department_app/models/department.py       13      0   100%
department_app/models/employee.py        13      0   100%
department_app/rest/__init__.py           0      0   100%
department_app/rest/department_api.py     39      2    95%
department_app/rest/employee_api.py      61      4    93%
department_app/service/__init__.py        0      0   100%
department_app/service/department_service.py  56      2    96%
department_app/service/employee_service.py  69      0   100%
department_app/tests/__init__.py          0      0   100%
department_app/tests/conftest.py         14      0   100%
department_app/tests/test_department_rest.py  49      0   100%
department_app/tests/test_department_service.py  46      0   100%
department_app/tests/test_department_view.py  39      0   100%
department_app/tests/test_employee_rest.py  91      0   100%
department_app/tests/test_employee_service.py  69      0   100%
department_app/tests/test_employee_view.py  63      0   100%
department_app/views/__init__.py          0      0   100%
department_app/views/departments_view.py  47      0   100%
department_app/views/employees_view.py    74      0   100%
-----
TOTAL                                826      9    99%
• (venv) n_kychma@G3-3579:~/Desktop/department_app$
```