1) Install Python 3.10

```
root@dlp:~# pkg install -y python310
root@dlp:~# python3.10 -V
Python 3.10.13
```

```
# verify to create a test script
root@dlp:~# echo -e "import sys\nprint(sys.version)" > python_test.py
root@dlp:~# python3.10 python_test.py
3.10.13 (main, Jan 6 2024, 01:52:42) [Clang 16.0.6 (https://github.com/llvm/llvm-project.git llvmorg-16.0.6-0-g7cbf1a
```

2) Install SQLite3 library

```
root@dlp:~# pkg install -y py310-sqlite3
```

3) Install Django in a Python venv environment with any user you like to setup it

```
freebsd@dlp:~ $ python3.10 -m venv --system-site-packages ~/django5
freebsd@dlp:~ $ . ~/django5/bin/activate
(django5) freebsd@dlp:~ $ pip install 'Django>=5'
Collecting Django>=5
  Downloading Django-5.0.1-py3-none-any.whl (8.1 MB)
     8.1/8.1 MB 27.2 MB/s eta 0:00:00
Collecting asgiref<4,>=3.7.0
  Using cached asgiref-3.7.2-py3-none-any.whl (24 kB)
Collecting sqlparse>=0.3.1
  Using cached sqlparse-0.4.4-py3-none-any.whl (41 kB)
Collecting typing-extensions>=4
  Using cached typing_extensions-4.9.0-py3-none-any.whl (32 kB)
Installing collected packages: typing-extensions, sqlparse, asgiref, Django
Successfully installed Django-5.0.1 asgiref-3.7.2 sqlparse-0.4.4 typing-extensions-4.9.0
```

```
(django5) freebsd@dlp:~ $ django-admin --version
5.0.1
# to exit from venv, run like follows
(django5) freebsd@dlp:~ $ deactivate
```

4) Create a test project

```
freebsd@dlp:~ $ . ~/django5/bin/activate
# create testproject
(django5) freebsd@dlp:~ $ django-admin startproject testproject2
(django5) freebsd@dlp:~ $ cd testproject2
# configure database (default is SQLite)
(django5) freebsd@dlp:~/testproject2 $ python manage.py migrate
# create admin user
(django5) freebsd@dlp:~/testproject2 $ python manage.py createsuperuser
Username (leave blank to use 'freebsd'): freebsd
Email address: freebsd@dlp.srv.world
Password:
Password (again):
Superuser created successfully.
```

```
(django5) freebsd@dlp:~/testproject2 $ vi testproject2/settings.py
        # line 28 : set if you allow to access to Django from other Hosts
        # specify Hosts with comma separated
        # if allow all, specify like follows
        ALLOWED_HOSTS = ['*']
```

```
# start server
(django5) freebsd@dlp:~/testproject2 $ python manage.py runserver 0.0.0.0:8000
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
February 01, 2024 - 01:59:55
Django version 5.0.1, using settings 'testproject2.settings'
Starting development server at http://0.0.0.0:8000/
Quit the server with CONTROL-C.
```

http://bla:8000
http://bla:8000/admin

5) Create a test application to try to use Django

```
freebsd@dlp:~ $ . ~/django5/bin/activate
(django5) freebsd@dlp:~ $ cd testproject2
(django5) freebsd@dlp:~/testproject2 $ python manage.py startapp test_app
(django5) freebsd@dlp:~/testproject2 $ vi test_app/views.py
        # add to last line
        from django.http import HttpResponse
        def main(request):
            html = '<html>\n' \
                   '<body>\n' \
                   '<div style="width: 100%; font-size: 40px; font-weight: bold; text-align:
        center;">\n' \
                   'Django Test Page\n' \
                   '</div>\n' \
                   '</body>\n' \
                   '</html>\n'
            return HttpResponse(html)


(django5) freebsd@dlp:~/testproject2 $ vi testproject2/urls.py
        # line 18, 22 : add like follows
        from django.contrib import admin

        from django.urls import path, include

        urlpatterns = [
            path('admin/', admin.site.urls),
            path('test_app/', include('test_app.urls')),
        ]


(django5) freebsd@dlp:~/testproject2 $ vi test_app/urls.py
        # create new
        from django.urls import path
        from .views import main

        urlpatterns = [
            path('', main, name='home')
        ]


(django5) freebsd@dlp:~/testproject2 $ vi testproject2/settings.py
        # line 33 : add test application in [INSTALLED_APPS] section
        INSTALLED_APPS = (
            'django.contrib.admin',
            'django.contrib.auth',
            'django.contrib.contenttypes',
            'django.contrib.sessions',
            'django.contrib.messages',
            'django.contrib.staticfiles',
            'test_app',
        )


(django5) freebsd@dlp:~/testproject2 $ python manage.py runserver 0.0.0.0:8000
```

http://bla:8000/test_app