Configurando o projeto python by Prof. André

Criando o Banco PostGree pelo psql:

CREATE DATABASE oficinadb;

CREATE USER oficinauser WITH PASSWORD 'password123';

GRANT ALL PRIVILEGES ON DATABASE oficinadb TO oficinauser;

Preparando o python e django

#diretorio/pasta

#python -m venv .venv

#.venv\Scripts\activate.bat (win)

source .venv/bin/activate (linux)

#pip install django

#python.exe -m pip install --upgrade pip

#django-admin startproject nome_projeto .

pip install psycopg2-binary

#**pip install python-decouple**

Para poder separar as informações sensíveis

#crie o arquivo **.env** na raiz

#Na raiz criar a pasta apps

#python ..\manage.py startapp usuarios

#python ..\manage.py startapp geral

#python ..\manage.py startapp servicos

Configurando o .env

```
SECRET_KEY=(" OBS. Gerar ou pegar do Settings")
DEBUG=True
ALLOWED_HOSTS=*
DB_ENGINE=django.db.backends.postgresql
DB_NAME=oficinadb
DB_USER=oficinauser
DB_PASSWORD=password123
DB_HOST=localhost
DB_PORT=5432
```

Configurando Settings.ppy

```python
import sys
from pathlib import Path
from decouple import config, Csv

# Build paths inside the project like this: BASE_DIR / 'subdir'.
BASE_DIR = Path(__file__).resolve().parent.parent


APP_DIR = str(BASE_DIR / 'apps')


sys.path.insert(0, APP_DIR)

# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/5.0/howto/deployment/checklist/

# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = config('SECRET_KEY')

# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = config('DEBUG', default=False, cast=bool)

ALLOWED_HOSTS = config('ALLOWED_HOSTS', cast=Csv())


# Application definition

DJANGO_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
]

UTIL_APPS = [

]

OFICINA_APPS = [

    'usuarios.apps.UsuarioConfig',
    'geral.apps.GeralConfig',
    'servicos.apps.ServicosConfig',


]
```

```python
INSTALLED_APPS = DJANGO_APPS + UTIL_APPS + OFICINA_APPS

MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
]

ROOT_URLCONF = 'oficina.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [BASE_DIR / 'templates'],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
            ],
        },
    },
]

WSGI_APPLICATION = 'oficina.wsgi.application'


# Database
# https://docs.djangoproject.com/en/5.0/ref/settings/#databases

DATABASES = {
    'default': {
        'ENGINE': config('DB_ENGINE'),
        'NAME': config('DB_NAME'),
        'USER':config('DB_USER'),
        'PASSWORD':config('DB_PASSWORD'),
        'HOST':config('DB_HOST'),
        'PORT':config('DB_PORT')
    }
}
```

```python
# Password validation
# https://docs.djangoproject.com/en/5.0/ref/settings/#auth-password-
validators

AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME':
'django.contrib.auth.password_validation.UserAttributeSimilarityValidator
',
    },
    {
        'NAME':
'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
    {
        'NAME':
'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
    {
        'NAME':
'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
]


# Internationalization
# https://docs.djangoproject.com/en/5.0/topics/i18n/

LANGUAGE_CODE = 'pt-br'

TIME_ZONE = 'America/Sao_Paulo'

USE_I18N = True

USE_TZ = True


# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/5.0/howto/static-files/

STATIC_URL = 'static/'
STATIC_ROOT = BASE_DIR / 'staticfiles'

STATICFILES_DIRS = [
    BASE_DIR / 'static'
]

MEDIA_URL = 'media/'
MEDIA_ROOT = BASE_DIR / 'media'
```

```
# Default primary key field type
# https://docs.djangoproject.com/en/5.0/ref/settings/#default-auto-field

DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'
```

Configurando debug

Menu Executar -> Adicionar Configuração, python Debug -> Django

Migrando

#python manage.py migrate

Editar o models.py de geral

Oficina;

python .\manage.py makemigrations

python .\manage.py migrate

Mecanico;

python .\manage.py makemigrations

python .\manage.py migrate