<https://docs.djangoproject.com/en/5.0/intro/install/>

# Python

1. Download the latest version of Python. (3.12.1) Windows installer (64-bit)
2. Run python executable.
3. Select “Add python.exe to PATH”
4. Click install now via run as administrator.

A screen shot of a computer

Description automatically generated

1. Close window when installation is completed.

A screenshot of a computer

Description automatically generated

# Database

<https://www.enterprisedb.com/downloads/postgres-postgresql-downloads>

<https://docs.djangoproject.com/en/5.0/topics/install/#database-installation>

<https://docs.djangoproject.com/en/5.0/ref/databases/#postgresql-notes>

https://www.psycopg.org/docs/install.html

1. Run postgresql-16.2-1-windows-x64.exe as administrator.
2. Select all defaults until superuser password section.
3. Type in your desired password. Make sure you have a complex password for security.
4. Select all defaults and install database software.
5. Type in “pip install psycopg2-binary” in command prompt.

# Django Install

1. Create virtual environment by typing “python -m venv myenv” into command prompt. “myenv” can be named whatever you want.
2. Activate your environment by typing “myenv\Scripts\activate”.
3. Install Django by typing in “py -m pip install Django”.
4. Verify install by typing “django-admin --version”.
5. Type “django-admin startproject myproject” to create project.
6. Change directory by typing “cd myproject”.
7. Create app by typing “python manage.py startapp myapp”

# Configure PostgreSQL in Django

1. Go to pgAdmin 4 on desktop apps.
2. Go to object explorer on the left hand side and right click PoistgreSGQL 16.
3. Go to create and select database.
4. Name your database and accept the defaults and hit save.
5. Open “settings.py” via text editor.
6. Update the database as follows:

DATABASES = {

'default': {

'ENGINE': 'django.db.backends.postgresql',

'NAME': 'your\_database\_name',

'USER': 'postgres',

'PASSWORD': 'your\_postgres\_password',

'HOST': 'localhost',

'PORT': '5432',

}

}

**Key Commands**

1. python manage.py makemigrations
2. python manage.py migrate
3. python -m venv myenv
4. myenv\Scripts\activate
5. python manage.py runserver
6. python manage.py collectstatic – run everytime css has been updated.