Installation Guide v1

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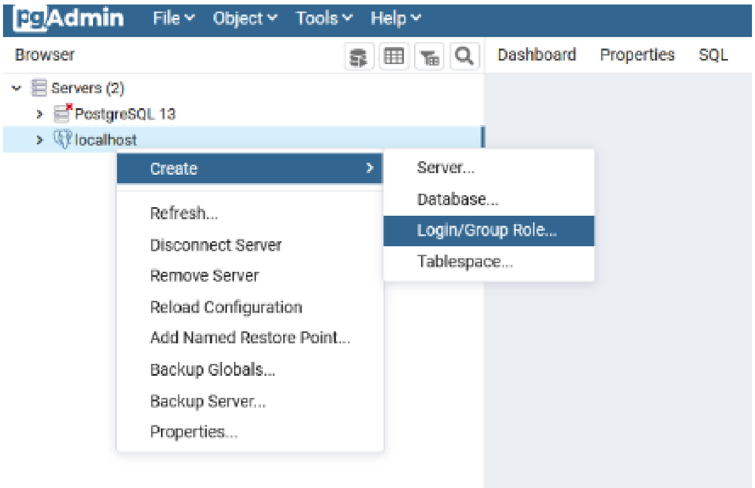
1. Prerequisites

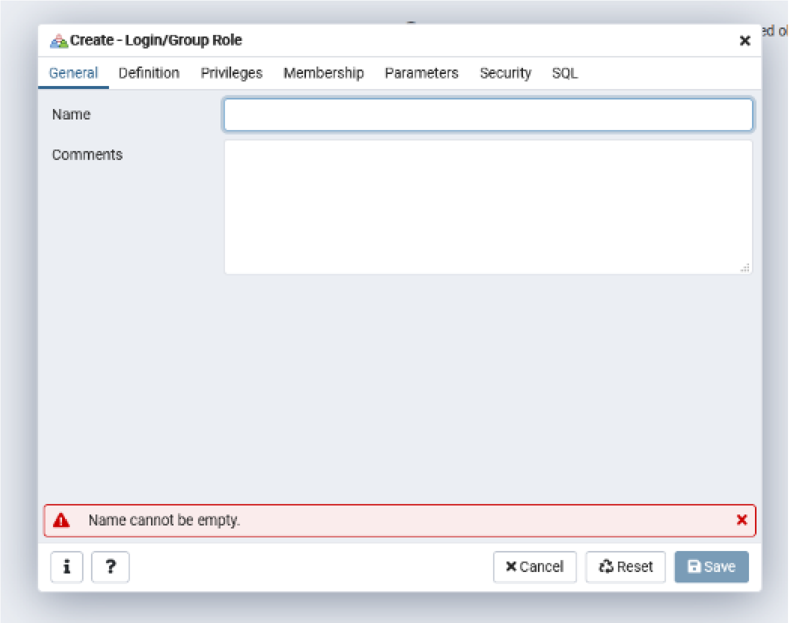
The tool was developed with the Pycharm IDE and the guide will refer to it. Download pgAdmin and install the latest version of Python.

2. Database Settings

If this is the first time you are using pgAdmin, you will have to follow a wizard that will set the permissions and passwords for the localhost or any other host you want. Create a new User as follows:

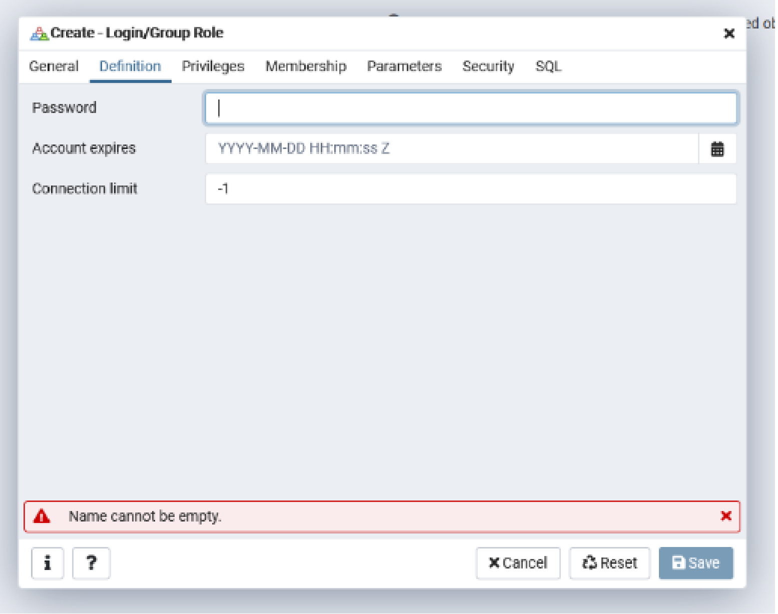


Set the user's Name.



Name cannot be empty.

Set user’s Password.



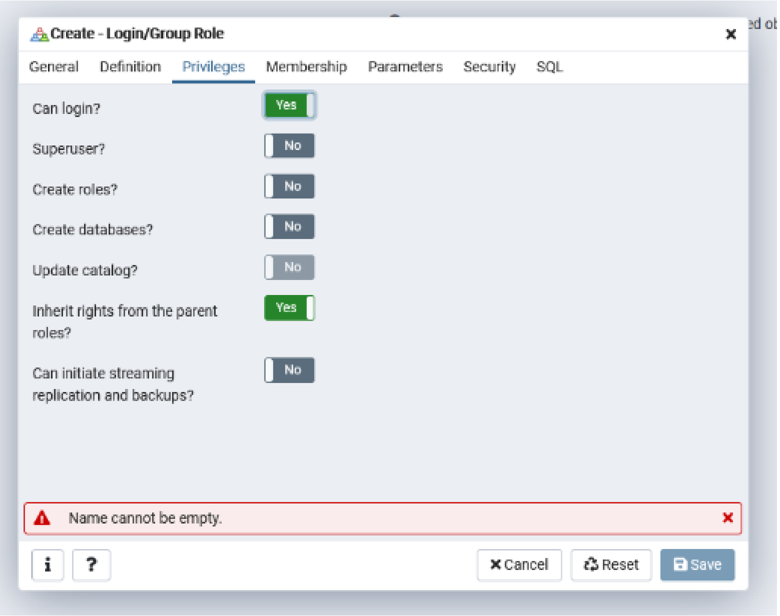
Password |

Account expires YYYY-MM-DD HH:mm:ss Z

Connection limit -1

Name cannot be empty.

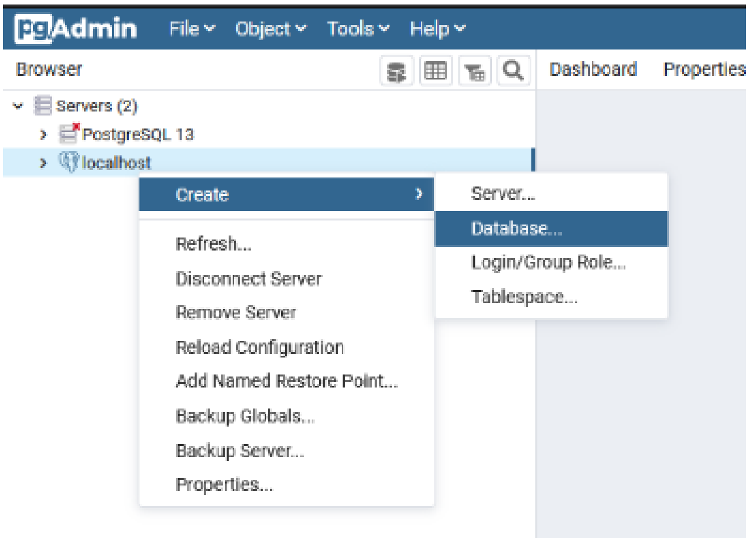
Set “Can Login?” on Yes and save.



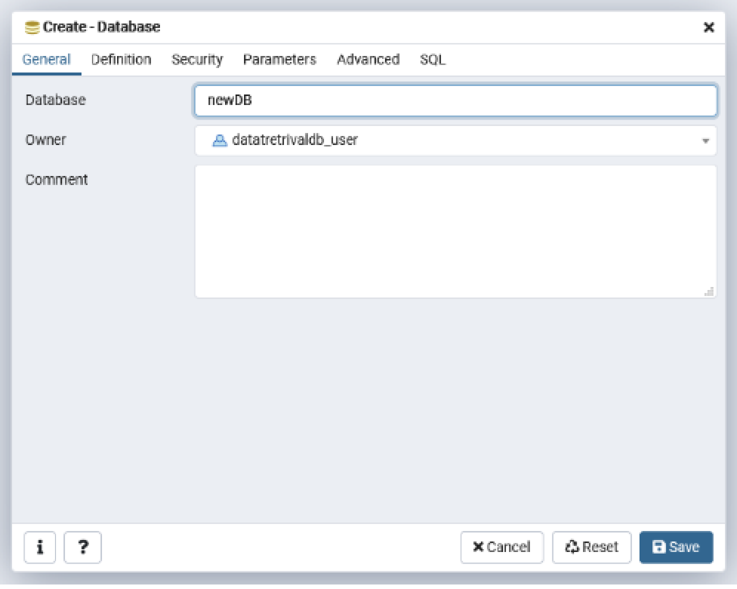
Can login?	Yes
Superuser?	No
Create roles?	No
Create databases?	No
Update catalog?	No
Inherit rights from the parent roles?	Yes
Can initiate streaming replication and backups?	No

Name cannot be empty.

Now create a new Database as follow:



Choose a name for the database and select the user created in the previous step as owner.



Database: newDB

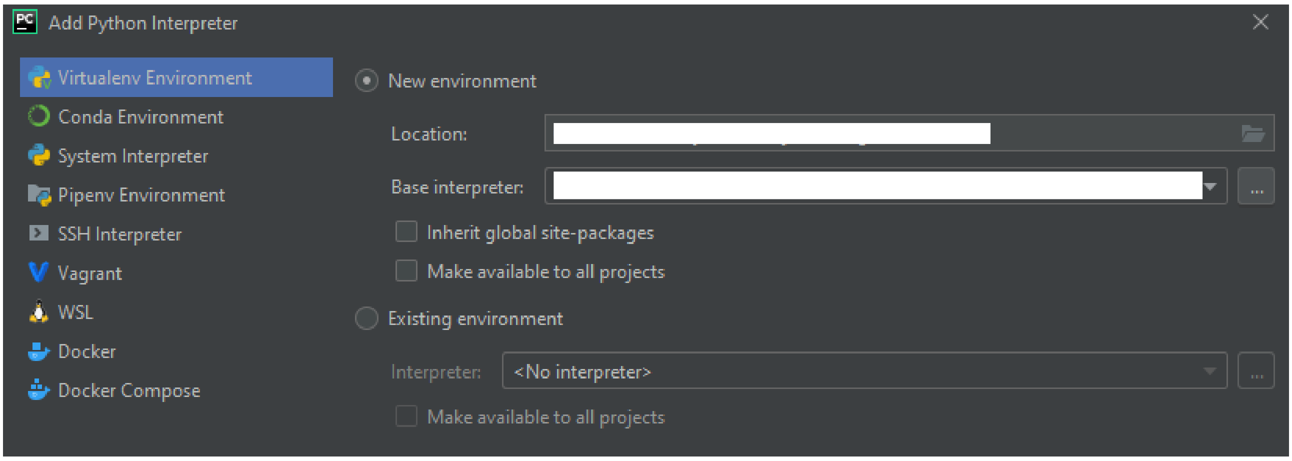
Owner: datatretrivaldb_user

Comment:

3. Project Settings

Clone the project from the Git Repository and open it in Pycharm.

Go to *“File | Settings | Project: ProgettoTesi | Python Interpreter”*, click on and add a new Python Interpeter.



● New environment

Location: [redacted]

Base interpreter: [redacted]

□ Inherit global site-packages

□ Make available to all projects

○ Existing environment

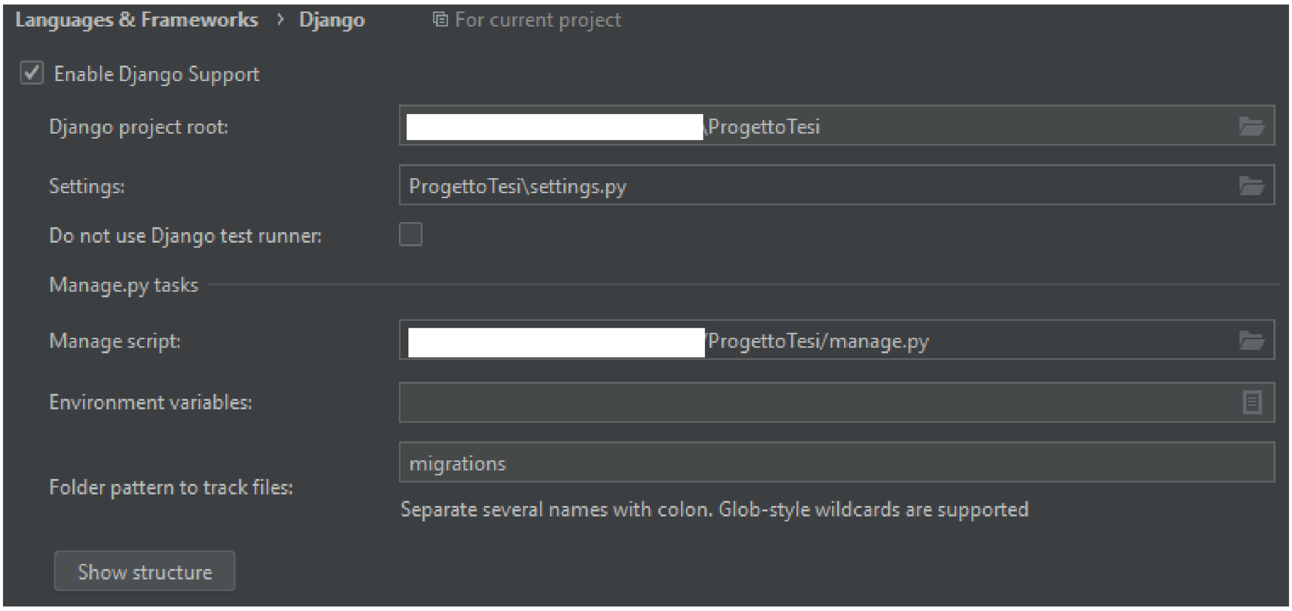
Interpreter: <No interpreter>

□ Make available to all projects

Crate a folder called *“venv”* in the project’s directory and select it in *“Location”*.
In *“Base interpeter”* select the Python’s installation path, it must be similiar to:

C:\Users\{username}\AppData\Local\Programs\Python\{python version}\python.exe

If you can’t see some folders, click on to show the hidden ones.
Open the terminal in the bottom of the IDE and now you must see *“(venv)”* near the directory. Type *“pip install -r requirements.txt”* to install required packages.
Now go to *“File | Settings | Languages & Frameworks | Django”* and set the Django’s envoirment as follows:



☑ Enable Django Support

Django project root: [redacted]\ProgettoTesi

Settings: ProgettoTesi\settings.py

Do not use Django test runner: □

Manage.py tasks

Manage script: [redacted]ProgettoTesi/manage.py

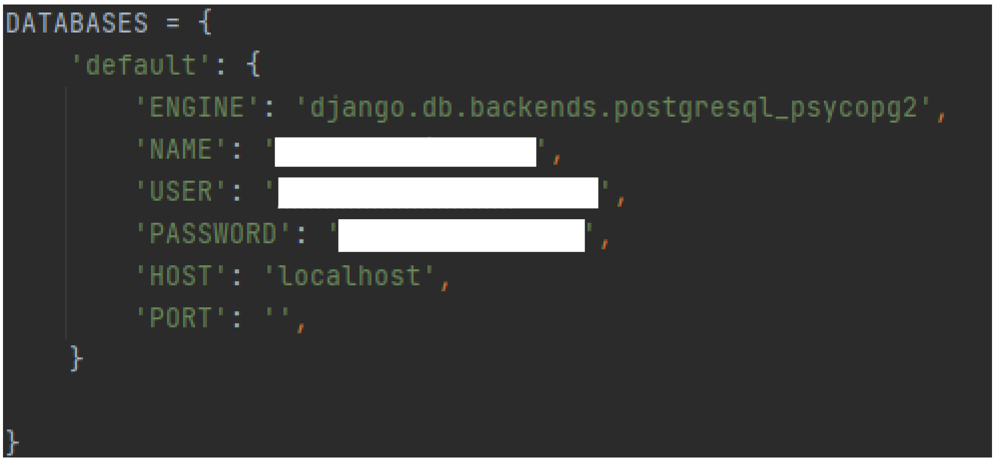
Environment variables:

Folder pattern to track files: migrations

Separate several names with colon. Glob-style wildcards are supported

Set all the field as shown above.

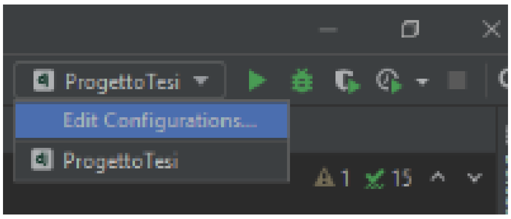
We now must set the database for the project, so go in the *settings.py* file and find the *DATABASES* section. Set the username, the password and the database name that you choose in pgAdmin.



```
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.postgresql_psycopg2',
        'NAME': '[redacted]',
        'USER': '[redacted]',
        'PASSWORD': '[redacted]',
        'HOST': 'localhost',
        'PORT': '',
    }

}
```

Now click *CTRL + ALT + R* and write in the console *"makemigrations"* and subsequently *"migrate"*.
Now create a new configuration by clicking *"Edit Configurations…"* on the upper right.



Then click on the plus icon and select *"Django Server"*. Give it a name and check that the Python interpreter is pointing at your venv.
Now, by clicking on ▶ you can run the server and open it in your browser.