

Django

Iniciando a Aplicação e Subindo o Servidor

Modelando um **Site** de Sindicato

Situação Problema

Referências

- <https://www.sindmedico.com.br/>
- <https://www.senalba.com.br/acordos-coletivos/768-senai-sp>
- <https://sinfor.org.br/>
- <https://www.sinprodf.org.br/>

Entidade : benefício



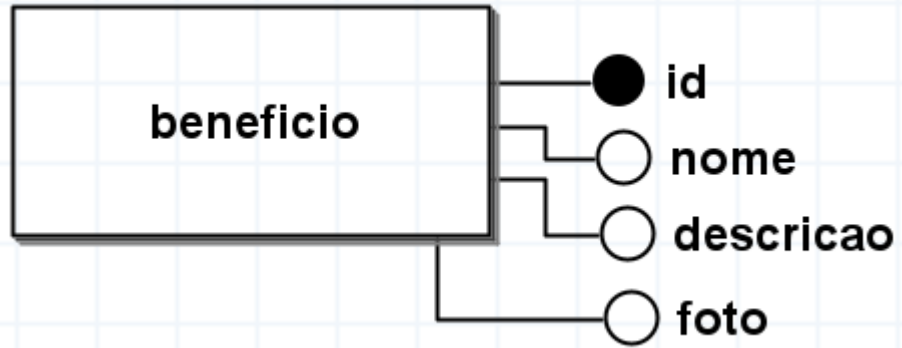
Planejamento
de Carreira

SindMédico
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Plano de Carreira, Cargos e Salários; remuneração básica, gratificações e
adicionais; progressão funcional e promoções; licenças e abonos; horas
extras e adicional noturno. Marque uma consulta pelo 3244-1998.

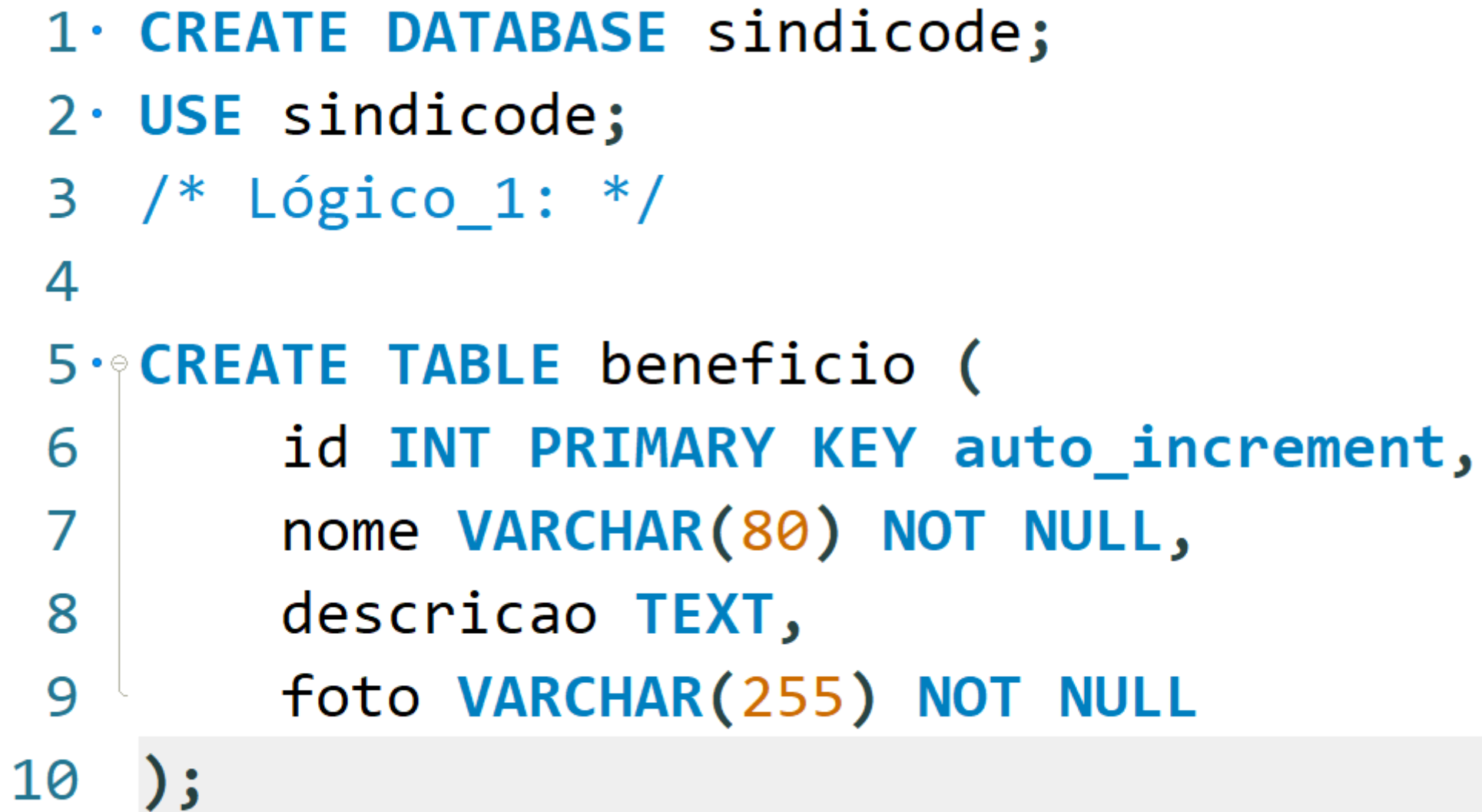
- Id
- Nome
- Descrição
- Foto

Modelo Conceitual



Exercício

- Criar o modelo lógico
- Criar o modelo físico
- Implementar no MySQL WorkBench
- Gerar Modelo MER (Engenharia Reversa)



The image shows a screenshot of a SQL IDE window. The title bar at the top includes icons for file operations (folder, save, undo, redo, find, zoom, etc.) and a status bar indicating "Limit to 1000 rows". The main area contains a SQL script with line numbers 1 through 10 on the left. The script creates a database named 'sindicode', uses it, and then creates a table named 'beneficio' with four columns: 'id' (INT PRIMARY KEY auto_increment), 'nome' (VARCHAR(80) NOT NULL), 'descricao' (TEXT), and 'foto' (VARCHAR(255) NOT NULL). The script ends with a semicolon on line 10. The text is color-coded: keywords like CREATE, DATABASE, USE, TABLE, PRIMARY KEY, NOT NULL, and TEXT are in blue, while data types like INT, VARCHAR, and TEXT are in black. The values 80 and 255 are in orange.

```
1• CREATE DATABASE sindicode;
2• USE sindicode;
3  /* Lógico_1: */
4
5• CREATE TABLE beneficio (
6      id INT PRIMARY KEY auto_increment,
7      nome VARCHAR(80) NOT NULL,
8      descricao TEXT,
9      foto VARCHAR(255) NOT NULL
10 );
```

INSERT

- Para testar você deve inserir 5 benefícios.

```
11• describe beneficio;  
12• INSERT INTO beneficio(nome,descricao,foto)VALUES('sesc','clube total','logo_sesc.png');  
13• SELECT * FROM beneficio;
```



The image features a light gray background with faint geometric patterns, including a network of lines and dots on the left and a cluster of small circles on the right. Three dark gray rectangular boxes with clipped corners are arranged on the left side. The top box contains the word 'Produtividade', the bottom box contains 'Documentação', and a third box to the right contains 'Código limpo'.

Produtividade

Documentação

Código limpo

<https://docs.djangoproject.com/pt-br/4.1/misc/design-philosophies/>

Abrir PyCharm



File Edit View Navigate Code Refactor Run

New Project...



New Project



New Project



Pure Python

Python



Django



FastAPI



Flask



Jupyter



dbt

Other



HTML5 Boilerplate



Bootstrap



React Native



React



Vite



Node.js



Express



Vue.js



Nuxt



Next.js



Angular CLI

Location: D:\Users\professor\Desktop\PythonProject



☐ Create Git repository ☐ Create a welcome script

Interpreter type: Project venv Base conda Custom environment

Environment: ☒ Generate new ☐ Select existing

Type: Virtualenv



Base Python: Python 3.14 (~\AppData\Local\Programs\Python\Python314\python.exe) system

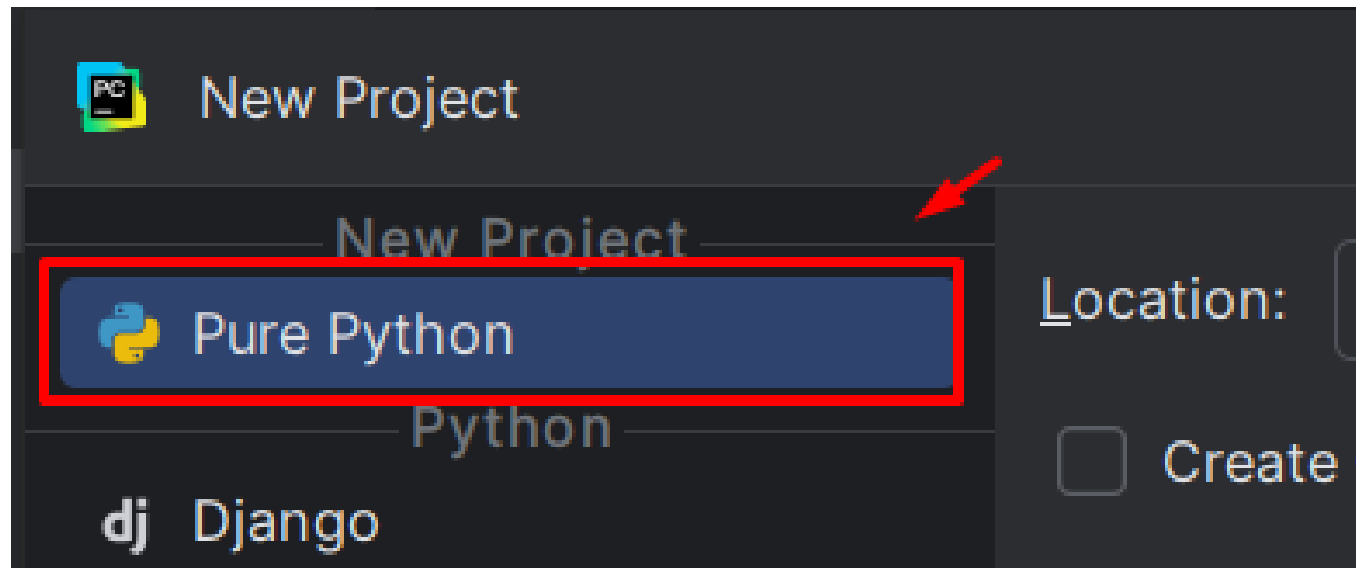


Location: D:\Users\professor\Desktop\PythonProject\.venv



☐ Inherit packages from base interpreter

☐ Make available to all projects



Location: D:\Users\professor\Desktop\PythonProject



☐ Create Git repository ☐ Create a welcome script

Interpreter type: Project venv Base conda Custom environment

Environment: ☒ Generate new ☐ Select existing

Type: Virtualenv

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☐ Inherit packages from base interpreter

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Location:

☐ Create Git repository ☐ Create a welcome script

Interpreter type: ☐ Project venv ☐ Base conda ☒ Custom environment

Environment: ☒ Generate new ☐ Select existing

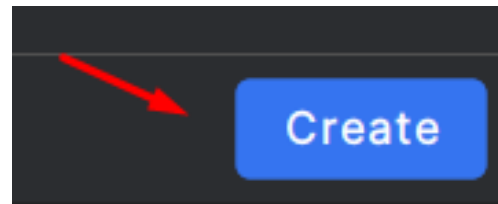
Type:

Base Python:

Location:

☐ Inherit packages from base interpreter

☐ Make available to all projects





Open Project



Projects can either be opened in a new window, or replace the project in the current window, or be attached to the already opened projects.
How would you like to open the project?

☐

Don't ask again

This Window

New Window

Attach

Cancel

Project ▾



▾  projetos D:\Users\professor\Desktop\projetos

>  .venv library root

Ambiente Virtual

- Jogos
- IA
- Django
- FastAPI
- Gráfico Pizza



Terminal

Local × + ▾

Windows PowerShell

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Experimente a nova plataforma cruzada PowerShell <https://aka.ms/pscore6>

[PyCharm] Your PSReadLine module version (2.0.0) is outdated, which may cause the problem with black lines across the terminal screen:
<https://learn.microsoft.com/windows/terminal/troubleshooting#black-lines-in-powershell-51-6x-70>
Install the latest version by running: `'Install-Module PSReadLine -MinimumVersion 2.0.3 -Scope CurrentUser -Force'`
After the installation, open a new terminal tab.

(.venv) PS D:\Users\professor\Desktop\projetos> █

```
• python --version
```

```
pip install django==4.1
```



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

```
Professor\Desktop\projetos> python.exe -m pip install --upgrade pip
```

```
Requirement already satisfied: pip in d:\users\professor\desktop\projetos\.venv\lib\site-packages (25.1.1)
```

```
pip --version
```

```
(.venv) PS D:\Users\professor\Desktop\sindicode-web> python.exe -m pip install --upgrade pip
Requirement already satisfied: pip in d:\users\professor\desktop\sindicode-web\.venv\lib\site-packages (25.1.1)
Collecting pip
  Downloading pip-25.2-py3-none-any.whl.metadata (4.7 kB)
  Downloading pip-25.2-py3-none-any.whl (1.8 MB)
    

1.8/1.8 MB 6.3 MB/s eta 0:00:00


Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 25.1.1
    Uninstalling pip-25.1.1:
      Successfully uninstalled pip-25.1.1
  Successfully installed pip-25.2
```

```
(.venv) PS D:\Users\professor\Desktop\projetos> pip list
```

Package	Version
---------	---------

-----	-----
-------	-------

asgiref	3.10.0
---------	--------

Django	4.1
--------	-----

pip	25.2
-----	------

sqlparse	0.5.3
----------	-------

tzdata	2025.2
--------	--------

Metodologia de desenvolvimento de sistemas x Paradigma

- **Cascata (Waterfall)** – cada etapa tem que ser finalizada
- **Ágil (SCRUM)** – Entregas contínuas em ciclos (SPRINTs) - Backlogs
- **Multiparadigma**
 - **Paradigmas**
 - **Estruturado**
 - **Orientado a Objetos**
 - **Funcional**
 - **Orientado a Aspectos**
 - **Orientado a Eventos (JavaScript)**
 - **Abordagem de Dev**
 - **Code**
 - **Low Code (Admin)**
 - **No Code**
 - **Assistência de IA (Vibe Coding)**

backlog



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extras e adicional noturno. Marque uma consulta pelo 3244-1998.

- CRM (gerenciador de conteúdo)
 - Gerenciar o conteúdo do site do **sindcode**
 - Benefícios dos sindicalizados

```
(.venv) PS D:\Users\professor\Desktop\sindicode-web> pip list
```

Package	Version
---------	---------

-----	-----
-------	-------

asgiref	3.10.0
---------	--------

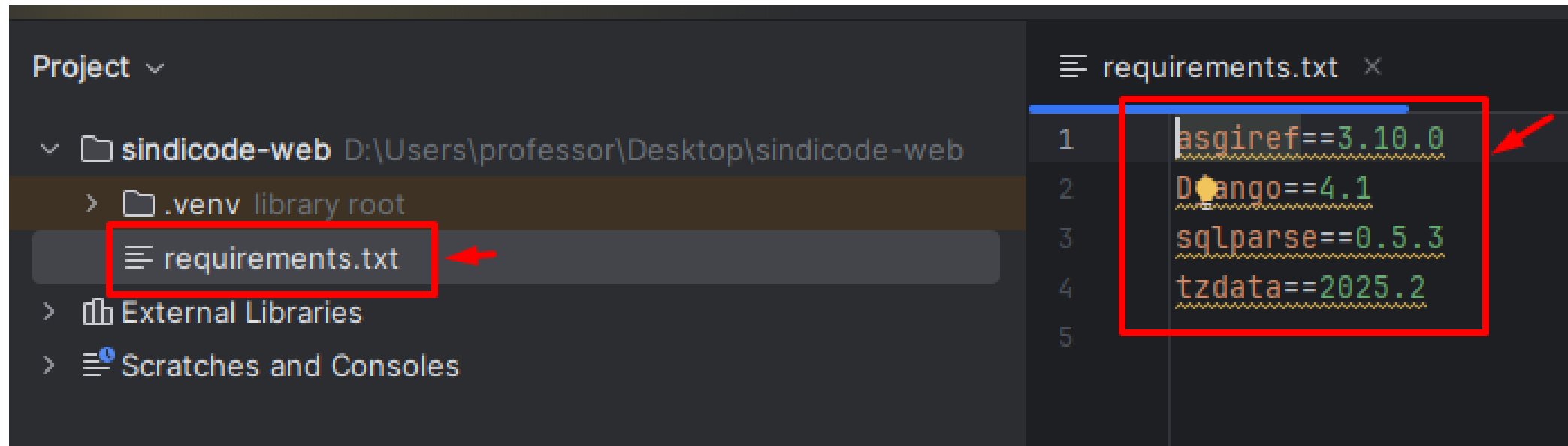
Django	4.1
--------	-----

pip	25.2
-----	------


sqlparse	0.5.3
----------	-------

tzdata	2025.2
--------	--------

```
pip freeze > requirements.txt
```




Project ▾

▾  **projetos** D:\Users\professor\Desktop\projetos

>  **.venv** library root

≡ requirements.txt

>  External Libraries

> ≡  Scratches and Consoles

≡ requirements.txt ×

```
1  asgiref==3.10.0
2  Django==4.1
3  sqlparse==0.5.3
4  tzdata==2025.2
5
```

```
django-admin help
```


```
startapp
```



```
startproject
```



```
django-admin startproject setup .
```




Project ▾




▾  **projetos** D:\Users\professor\Desktop\projetos






>  **.venv** library root 

>  **setup** 

 **manage.py** 

 **requirements.txt**

Project ▾

- ▾  **sindicode-web** D:\Users\professor\Desktop\sindicode-web
 - >  **.venv** library root
 - >  **setup**
 -  **manage.py**
 -  **requirements.txt**

```
python manage.py runserver
```

```
p\projetos> django-admin startproject setup .  
p\projetos> python manage.py runserver
```



The install worked successfully! Congratulations!

You are seeing this page because `DEBUG=True` is in your settings file and you have not configured any URLs.

LocalHost

```
(.venv) PS D:\Users\professor\Desktop\projetos> python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).


You have 18 unapplied migration(s). Your project may not work properly until y
Run 'python manage.py migrate' to apply them.
October 15, 2025 - 11:27:21
Django version 4.1, using settings 'setup.settings'
Starting development server at http://127.0.0.1:8000/ ←
Quit the server with CTRL-BREAK.
```



The install worked successfully! Congratulations!

You are seeing this page because [DEBUG=True](#) is in your settings file and you have not configured any URLs.


Project ▾

▾  **sindicode-web** D:\Users\professor\Desktop\

>  **.venv** library root

>  **setup**

 **.gitignore**

 **db.sqlite3**

≡ requirements.txt

1 

.venv

Project ▾




▾  **projetos** D:\Users\professor\Desktop\projetos

>  **.venv** library root

>  **setup**

 **db.sqlite3**



 **manage.py**

 **requirements.txt**

>  **External Libraries**

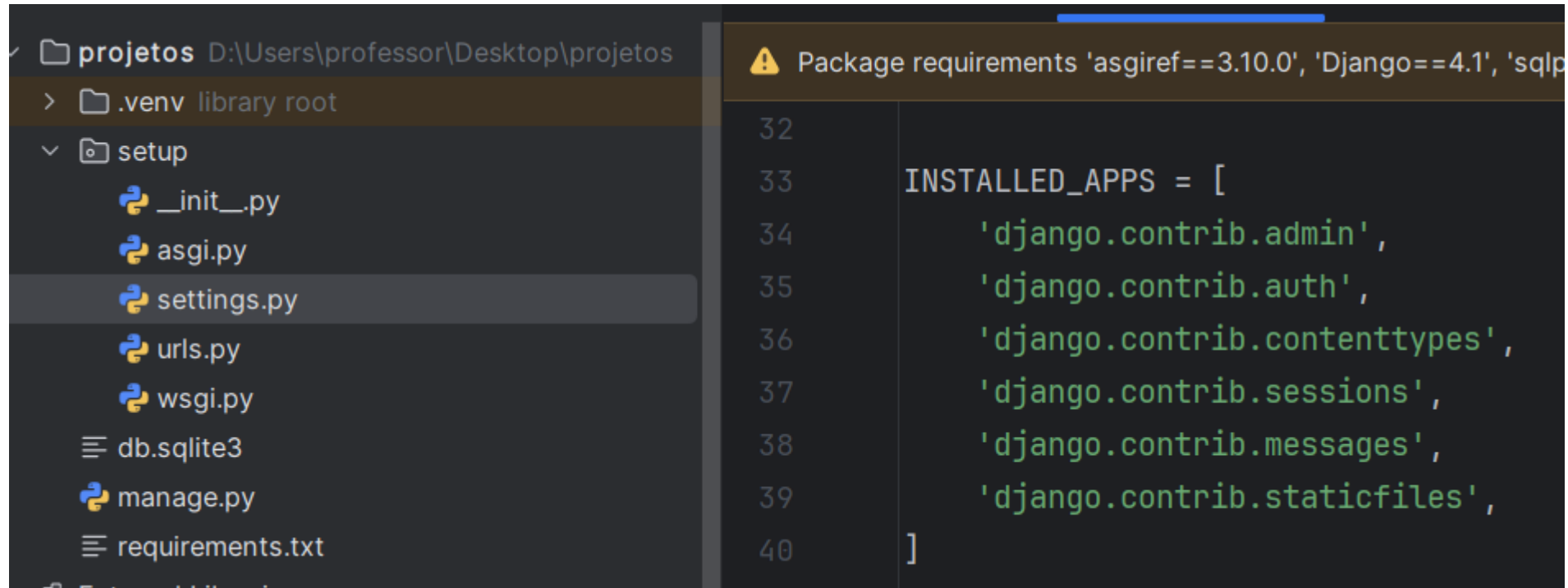
>  **Scratches and Consoles**

Django

- Aplicativos



Além da criação do aplicativo temos que instalar o aplicativo



```
Package requirements 'asgiref==3.10.0', 'Django==4.1', 'sqlp  
32  
33 INSTALLED_APPS = [  
34     'django.contrib.admin',  
35     'django.contrib.auth',  
36     'django.contrib.contenttypes',  
37     'django.contrib.sessions',  
38     'django.contrib.messages',  
39     'django.contrib.staticfiles',  
40 ]
```

```
106 LANGUAGE_CODE = 'pt-br'
```

```
107
```

```
108 TIME_ZONE = 'America/Sao_Paulo'
```

```
109 USE_I18N = True
```

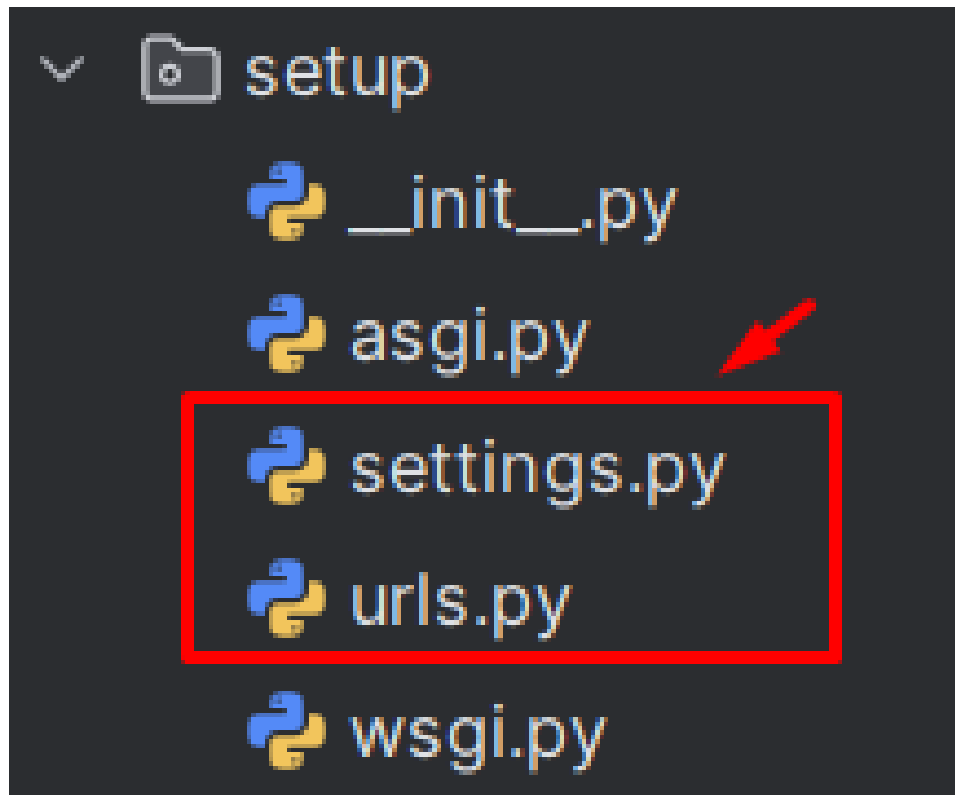
django

Ver as [notas de lançamento](#) do Django 4.1



A instalação foi com sucesso! Parabéns!

Você está vendo esta página pois possui [DEBUG=True](#) no seu arquivo de configurações e não configurou nenhuma URL.



Configurações Gerais – settings.py

Rotas da Aplicação – urls.py