

A screenshot of a Google search results page. The search query is "create virtual environment python". The top result is a snippet from the Python documentation: "Creation of virtual environments is done by executing the command `venv`". It lists three ways to run the command:

1. `python3 -m venv /path/to/new/virtual/environment.`
2. `c:\>c:\Python35\python -m venv c:\path\to\myenv.`
3. `c:\>python -m venv c:\path\to\myenv.`

Below the snippet is a link to "More items...". Further down, there's a snippet from the Python documentation: "venv — Creation of virtual environments — Python 3.10.7 ...". At the bottom, there's a snippet from freecodecamp.org: "How to Set Up a Virtual Environment in Python – And Why It's ...".

```
pcq1@pcq MINGW64 /e/python/restoran
```

```
$ pip freeze
```

```
asgiref==3.5.2
```

```
Django==4.1.1
```

```
sqlparse==0.4.3
```

```
tzdata==2022.2
```

```
pcq1@pcq MINGW64 /e/python/restoran
```

```
$ python -m venv env
```

```
pcq1@pcq MINGW64 /e/python/restoran
```

```
$ pip freeze
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```
asgiref==3.5.2
```

```
Django==4.1.1
```

```
sqlparse==0.4.3
```

```
tzdata==2022.2
```

```
pcq1@pcq MINGW64 /e/python/restoran
```

```
$ source env/Scripts/activate
```

```
(env)
```

```
pcq1@pcq MINGW64 /e/python/restoran
```

```
$ pip freeze
asgiref==3.5.2
Django==4.1.1
sqlparse==0.4.3
tzdata==2022.2

pcq1@pcq MINGW64 /e/python/restoran
$ python -m venv env

pcq1@pcq MINGW64 /e/python/restoran
$ pip freeze
asgiref==3.5.2
Django==4.1.1
sqlparse==0.4.3
tzdata==2022.2

pcq1@pcq MINGW64 /e/python/restoran
$ source env/Scripts/activate
(env)
```

```
pcq1@pcq MINGW64 /e/python/restoran
$ pip install django
Collecting django
  Using cached Django-4.1.1-py3-none-any.whl (8.1 MB)
Collecting tzdata
  Downloading tzdata-2022.4-py2.py3-none-any.whl (336 kB)
    ━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 336.7/336.7 kB 189.9 kB/s eta 0:00:00
Collecting sqlparse>=0.2.2
  Using cached sqlparse-0.4.3-py3-none-any.whl (42 kB)
Collecting asgiref<4,>=3.5.2
  Using cached asgiref-3.5.2-py3-none-any.whl (22 kB)
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.5.2 django-4.1.1 sqlparse-0.4.3 tzdata-2022.4
(env)
pcq1@pcq MINGW64 /e/python/restoran
```

```
$ pip install django
```

```
pcq1@pcq MINGW64 /e/python/restoran
$ django-admin startproject restoran_main .
(env)
pcq1@pcq MINGW64 /e/python/restoran
$ |
```

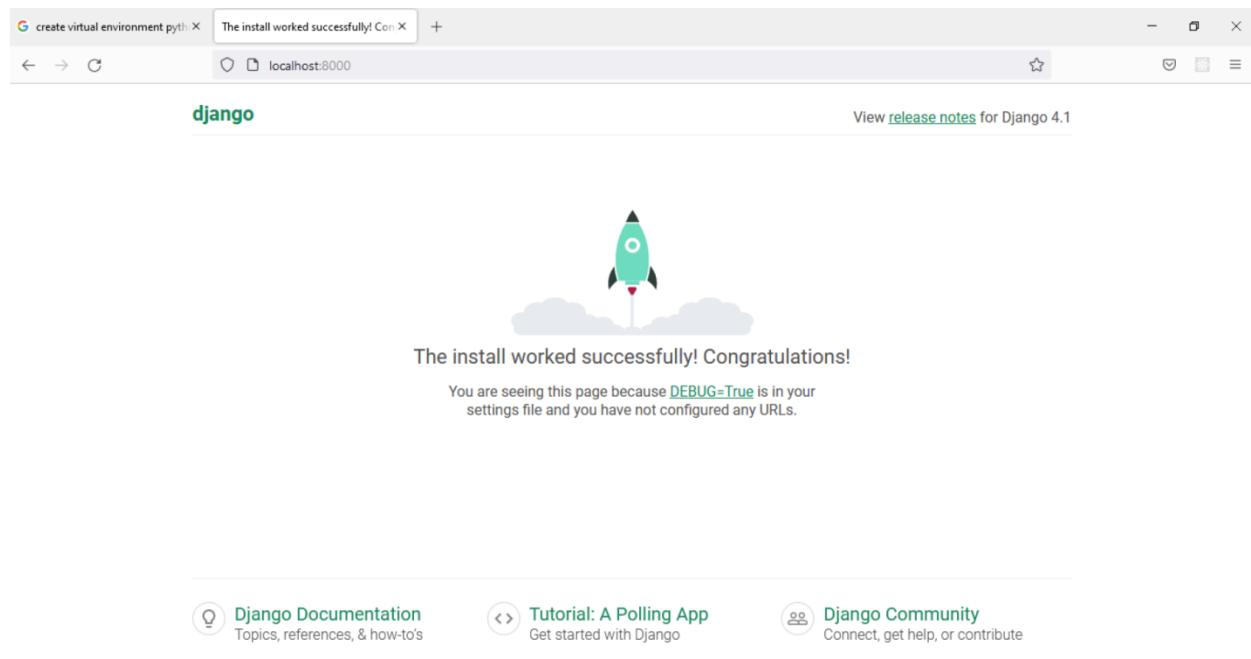
```
$ django-admin startproject restoran_main .
```

code .

```
pcq1@pcq MINGW64 /e/python/restoran
$ deactivate
```

pcq1@pcq MINGW64 /e/python/restoran

\$ deactivate



PS E:\python\restoran> python manage.py runserver

PS E:\python\restoran> python manage.py runserver

The screenshot shows the Visual Studio Code interface with a Django project named 'restoran\_main'. The Explorer sidebar on the left lists files like 'views.py' (which is currently selected), 'urls.py', 'settings.py', and 'wsgi.py'. The code editor displays 'views.py' with a simple 'Home' view function. The bottom status bar shows the file is saved in 'Administrator' mode.

```
from django.shortcuts import render
from django.http import HttpResponse

def Home(request):
    return HttpResponse('Hello word')
```

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure under 'restoran\_main'. The 'urls.py' file is selected.
- Code Editor (Top Right):** Displays the content of 'urls.py'. The code defines a URL pattern for the 'blog' application and includes a note to add a URL to 'urlpatterns'.
- Bottom Status Bar:** Shows the current file as 'urls.py - restoran - Visual Studio Code [Administrator]' and the status bar with file number 18, column 5, and other settings.

```
restoran_main > urls.py > ...
14     2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
15 """
16 from django.contrib import admin
17 from django.urls import path
18 from . import views
19
20 urlpatterns = [
21     path('admin/', admin.site.urls),
22     path('', views.Home, name='home')
23 ]
24
```



```
[28/Sep/2022 10:26:19] "GET /static/admin/css/responsive.css HTTP/1.1" 200 18854
[28/Sep/2022 10:26:19] "GET /static/admin/fonts/Roboto-Regular-webfont.woff HTTP/1.1" 304 0
[28/Sep/2022 10:26:19] "GET /static/admin/fonts/Roboto-Light-webfont.woff HTTP/1.1" 304 0
PS E:\python\restoran> python manage.py migrate
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, sessions
Applying auth.0003_alter_user_email_max_length... OK
Applying auth.0004_alter_user_username_opts... OK
Applying auth.0005_alter_user_last_login_null... OK
Applying auth.0006_require_contenttypes_0002... OK
Applying auth.0007.Alter_validators_add_error_messages... OK
Applying auth.0008_alter_user_username_max_length... OK
Applying auth.0009_alter_user_last_name_max_length... OK
Applying auth.0010_alter_group_name_max_length... OK
Applying auth.0011_update_proxy_permissions... OK
Applying auth.0012_alter_user_first_name_max_length... OK
Applying sessions.0001_initial... OK
PS E:\python\restoran>
```

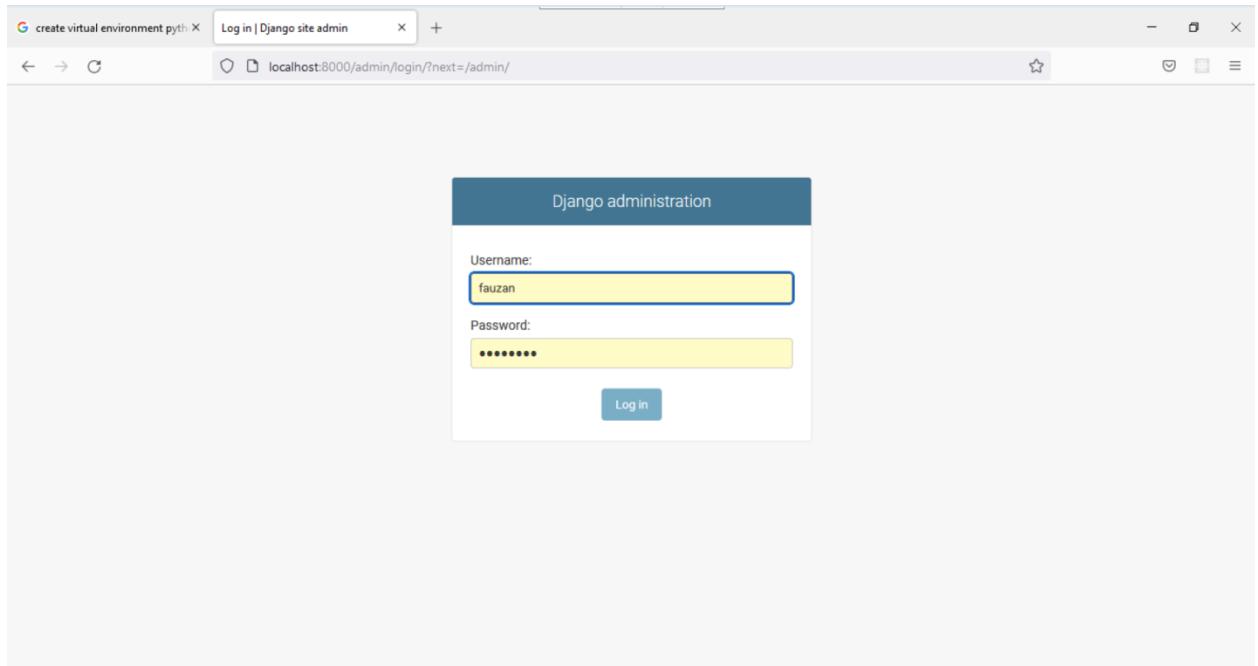
python manage.py migrate

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** manage.py - restoran - Visual Studio Code [Administrator].
- Explorer:** Shows a tree view of the project structure under 'RESTORAN'. Files listed include env, restoran\_main, \_\_pycache\_\_, templates, home.html, \_\_init\_\_.py, asgi.py, settings.py, urls.py, views.py, wsgi.py, db.sqlite3, and manage.py (which is currently selected).
- Editor:** The 'manage.py' file is open, showing Python code. A red error highlight is on line 14: "raise ImportError('Couldn't import Django. Are you sure it's installed and".
- Terminal:** The terminal tab is active, displaying the command 'python manage.py createsuperuser' and its output:

```
PS E:\python\restoran> python manage.py createsuperuser
Username (leave blank to use 'pcql'): fauzan
Email address: fauzangustifa@gmail.com
Password:
Password (again):
Superuser created successfully.
PS E:\python\restoran>
```
- Status Bar:** Shows Ln 1, Col 1, Spaces: 4, UTF-8, CRLF, Python, 3.10.7 64-bit, Go Live, Prettier.

python manage.py createsuperuser



The screenshot shows the Django administration interface. The top navigation bar includes tabs for 'create virtual environment pyth' (active), 'Site administration | Django site adr...', and a '+' button. Below the tabs, the URL 'localhost:8000/admin/' is displayed. The main header says 'Django administration' and 'WELCOME, FAUZAN. VIEW SITE / CHANGE PASSWORD / LOG OUT'. On the left, a sidebar titled 'Site administration' has a 'AUTHENTICATION AND AUTHORIZATION' section. It contains two tables: 'Groups' and 'Users', each with '+ Add' and 'Change' buttons. To the right, there are sections for 'Recent actions' (empty) and 'My actions' (also empty). A message 'None available' is shown.

The screenshot shows the Visual Studio Code interface with the title 'manage.py - restoran - Visual Studio Code [Administrator]'. The Explorer sidebar on the left shows a project structure under 'RESTORAN': env, restoran\_main, \_\_pycache\_\_, static (css, extra-images, fonts, images, js, templates), \_\_init\_\_.py, asgi.py, settings.py, urls.py, views.py, wsgi.py, db.sqlite3, and manage.py. The 'manage.py' file is open in the editor, showing the following code:

```
from django.core.management import execute_from_command_line

try:
    from django.core.management import execute_from_command_line
except ImportError as exc:
    raise ImportError(
        "Couldn't import Django. Are you sure it's installed and "
        "available on your PYTHONPATH environment variable? Did you "
        "forget to activate a virtual environment?"
    ) from exc
execute_from_command_line(sys.argv)

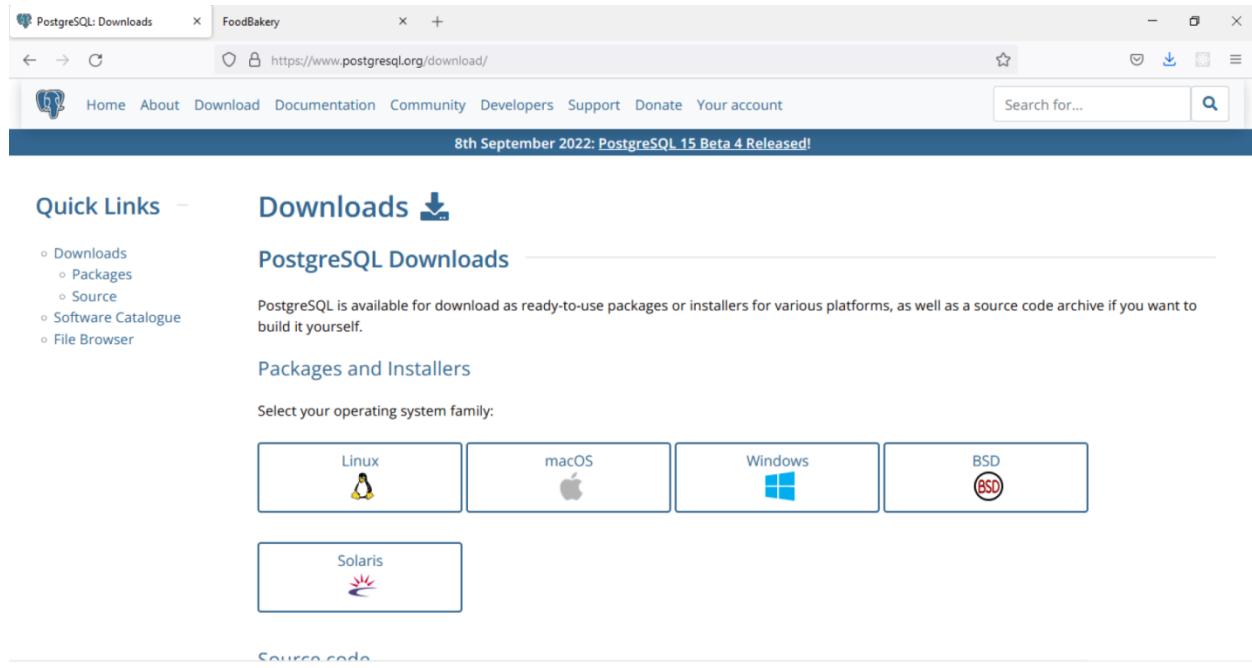
if __name__ == '__main__':
    main()
```

The status bar at the bottom shows 'Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit Go Live Prettier'.

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```
PS E:\python\restoran> python manage.py collectstatic
531 static files copied to 'E:\python\restoran\static'.
PS E:\python\restoran> [ ]
```

```
PS E:\python\restoran> python manage.py collectstatic
```



The screenshot shows a web browser window with the URL <https://www.postgresql.org/download/>. The page header includes "PostgreSQL Downloads" and "FoodBakery". A banner at the top reads "8th September 2022: PostgreSQL 15 Beta 4 Released!". The main content area has a "Quick Links" sidebar with links to "Downloads" (selected), "PostgreSQL Downloads", "PostgreSQL Catalogue", "File Browser", "Source", "Packages", and "Linux". Below this is a section titled "Select your operating system family:" with buttons for "Linux" (with a penguin icon), "macOS" (with an apple icon), "Windows" (with a Windows logo icon), "BSD" (with a BSD logo icon), and "Solaris" (with a Solaris logo icon). At the bottom, there is a link to "Source code".

**Quick Links**

- Downloads
- Packages
- Source
- Software Catalogue
- File Browser

## Windows installers

### Interactive installer by EDB

**Download the installer** certified by EDB for all supported PostgreSQL versions.

**Note!** This installer is hosted by EDB and not on the PostgreSQL community servers. If you have issues with the website it's hosted on, please contact [webmaster@enterprisedb.com](mailto:webmaster@enterprisedb.com).

This installer includes the PostgreSQL server, pgAdmin; a graphical tool for managing and developing your databases, and StackBuilder; a package manager that can be used to download and install additional PostgreSQL tools and drivers. Stackbuilder includes management, integration, migration, replication, geospatial, connectors and other tools.

This installer can run in graphical or silent install modes.

The installer is designed to be a straightforward, fast way to get up and running with PostgreSQL on Windows.

Advanced users can also download a **zip archive** of the binaries, without the installer. This download is intended for users who wish to include PostgreSQL as part of another application installer.

### Platform support

The installers are tested by EDB on the following platforms. They can generally be expected to run on other comparable versions, for example, desktop releases of Windows:

**EDB** Webinar Series: Oracle Migration - Sept 27 • Register Now | Webinar Series: EDB Postgres Distributed - Oct 12 & 26 • Register Now

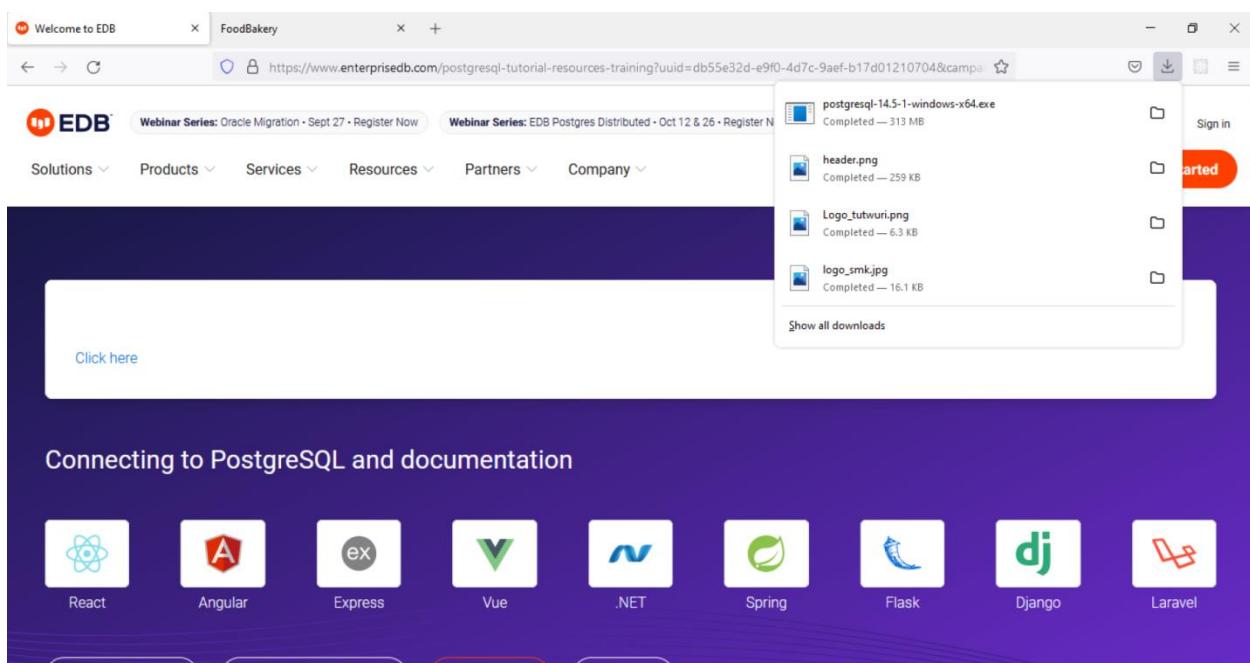
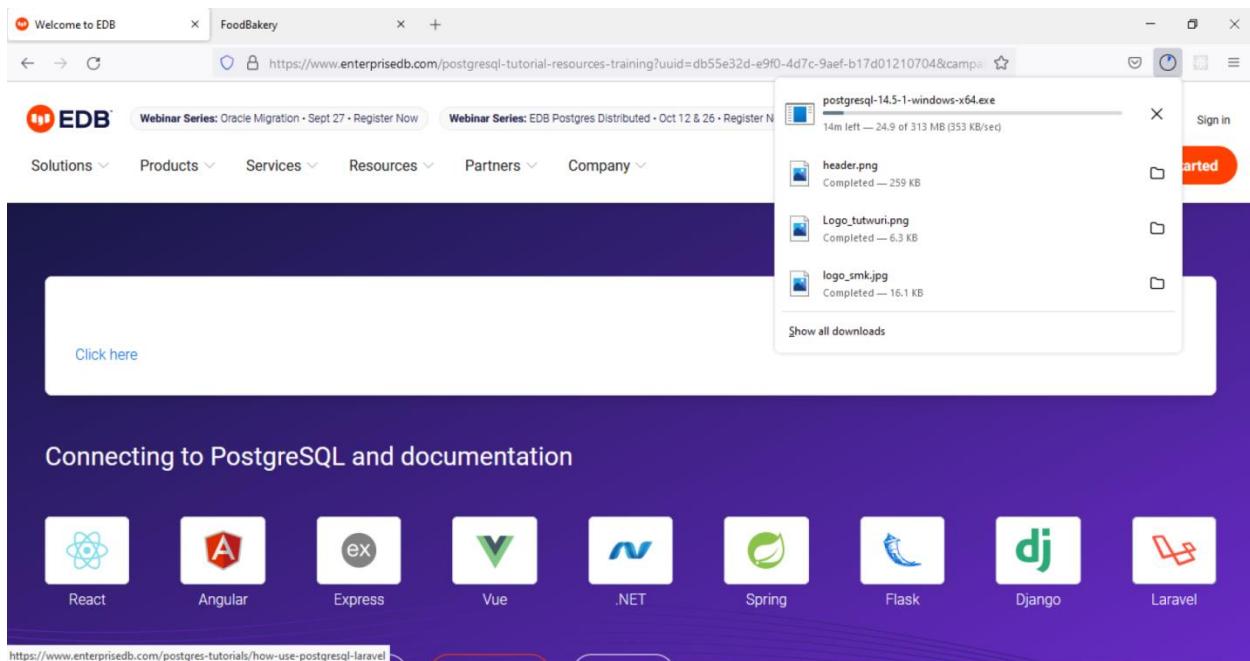
Contact us | Careers | Docs | Sign in | Get started

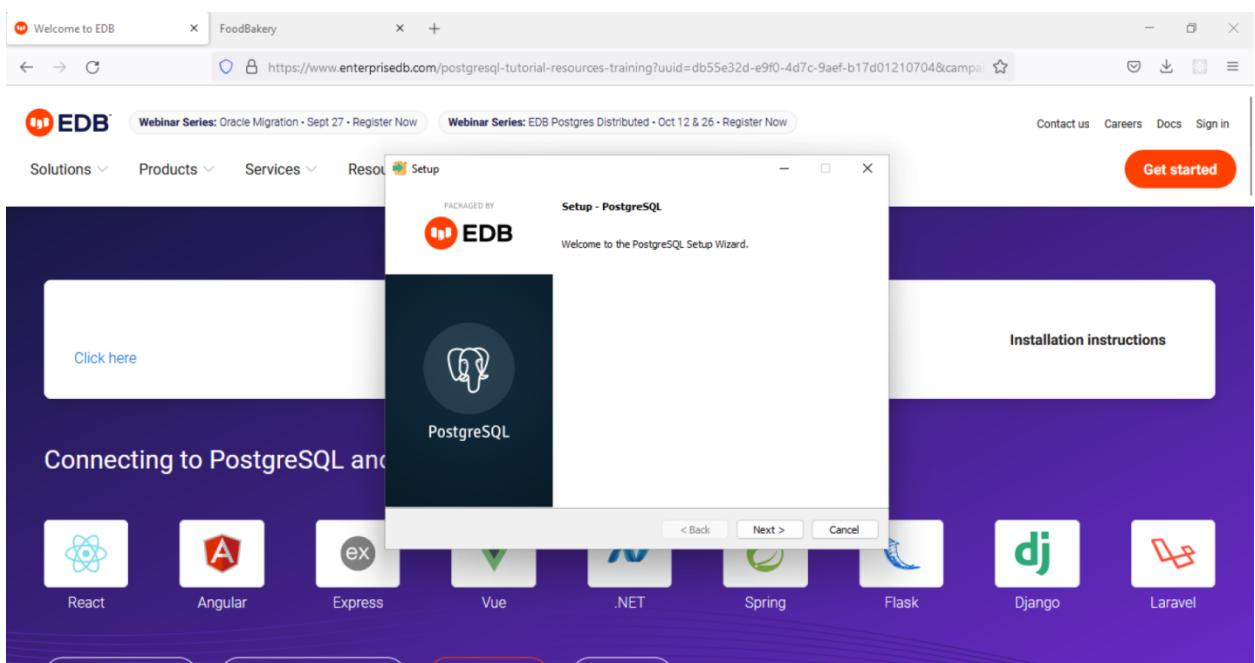
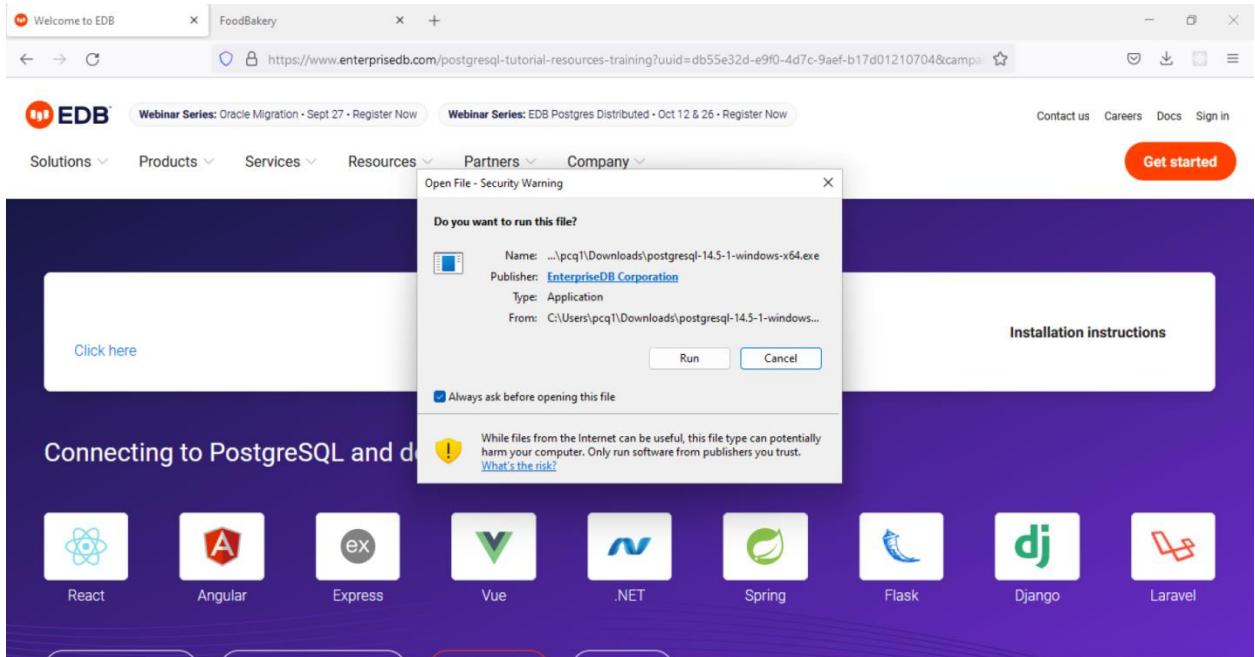
Solutions | Products | Services | Resources | Partners | Company

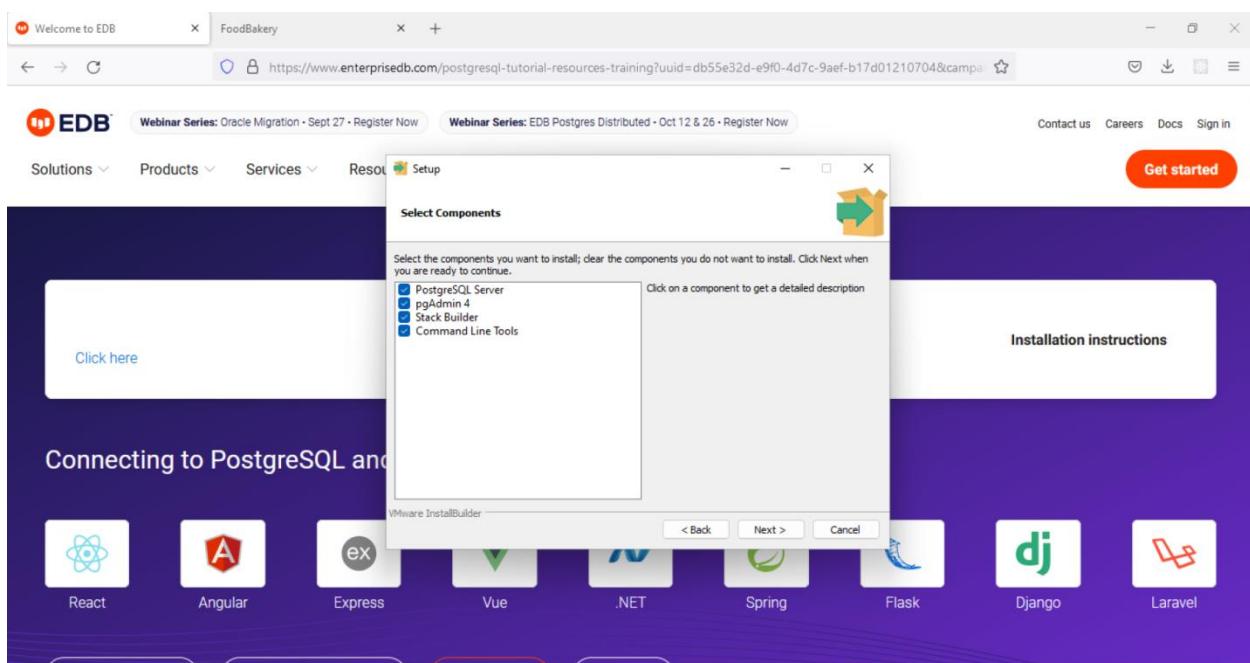
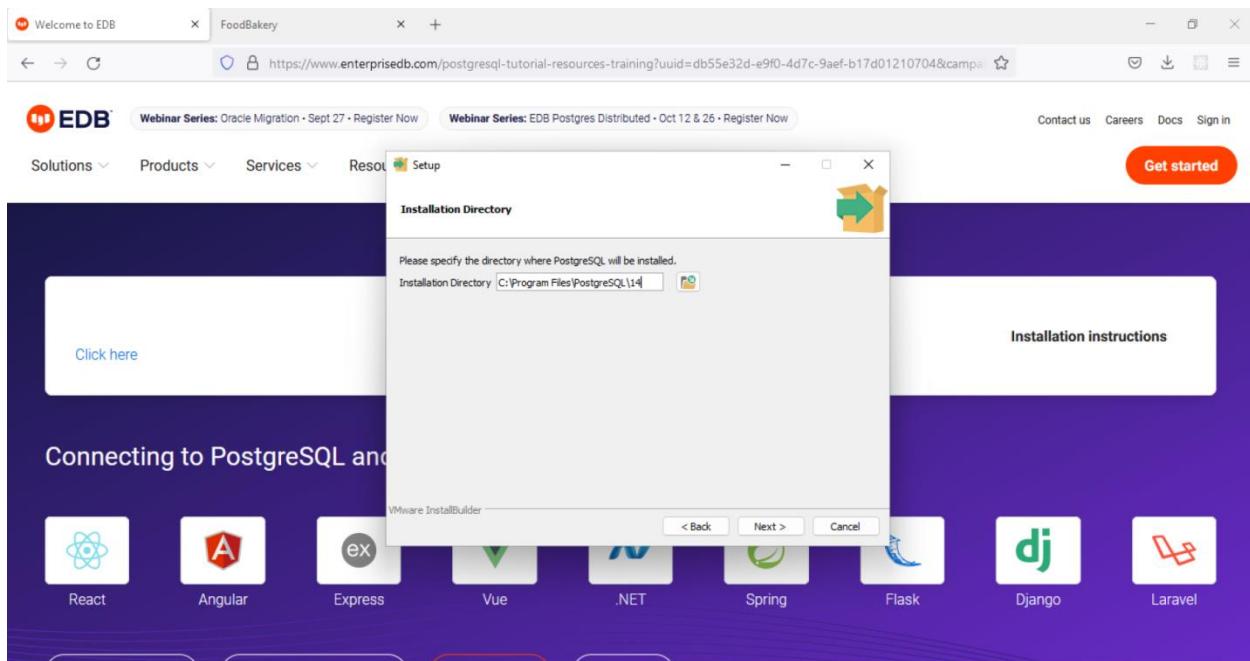
PostgreSQL Version	Linux x86-64	Linux x86-32	Mac OS X	Windows x86-64	Windows x86-32
14.5	<a href="https://www.postgresql.org">postgresql.org</a>	<a href="https://www.postgresql.org">postgresql.org</a>			Not supported
13.8	<a href="https://www.postgresql.org">postgresql.org</a>	<a href="https://www.postgresql.org">postgresql.org</a>			Not supported
12.12	<a href="https://www.postgresql.org">postgresql.org</a>	<a href="https://www.postgresql.org">postgresql.org</a>			Not supported
11.17	<a href="https://www.postgresql.org">postgresql.org</a>	<a href="https://www.postgresql.org">postgresql.org</a>			Not supported

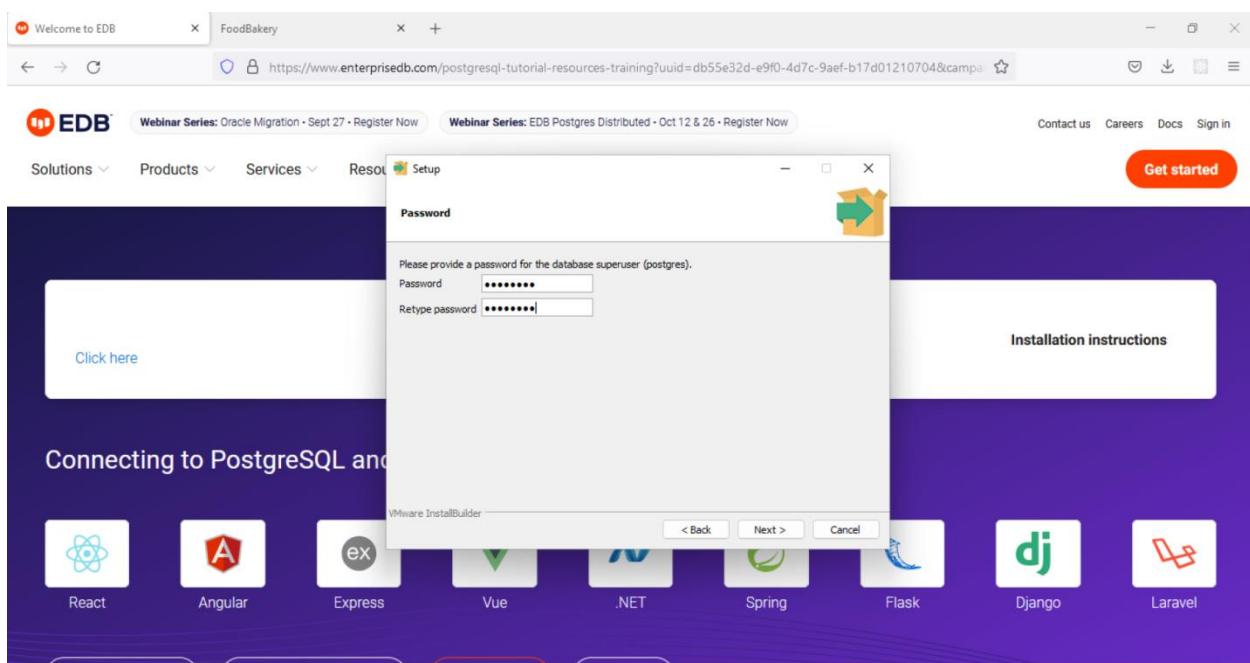
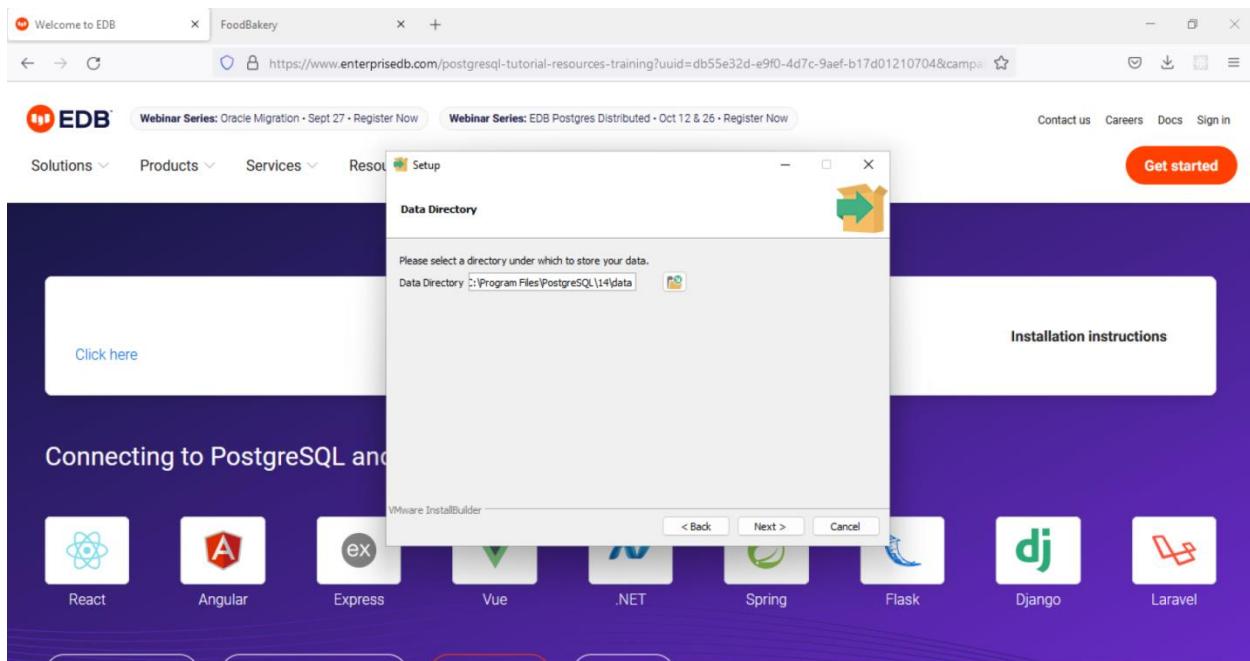
We use cookies on this site for operational, analytic, and marketing purposes, including to improve your site experience. For more information see our Privacy Policy and Cookie Policy.

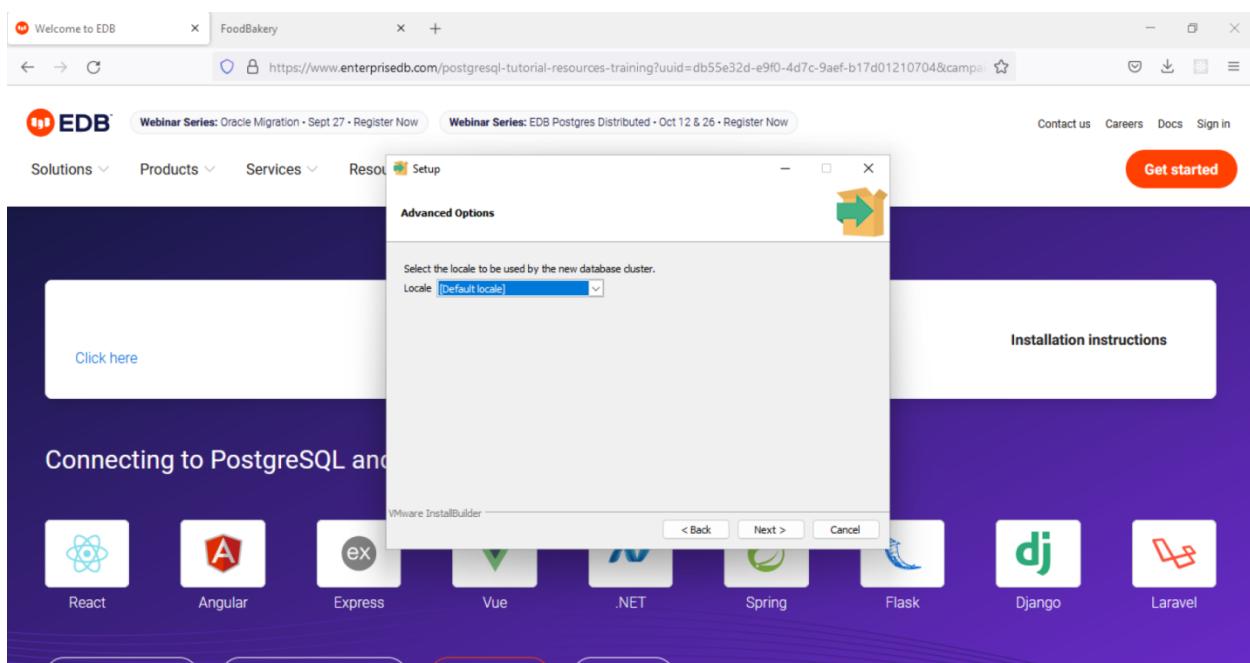
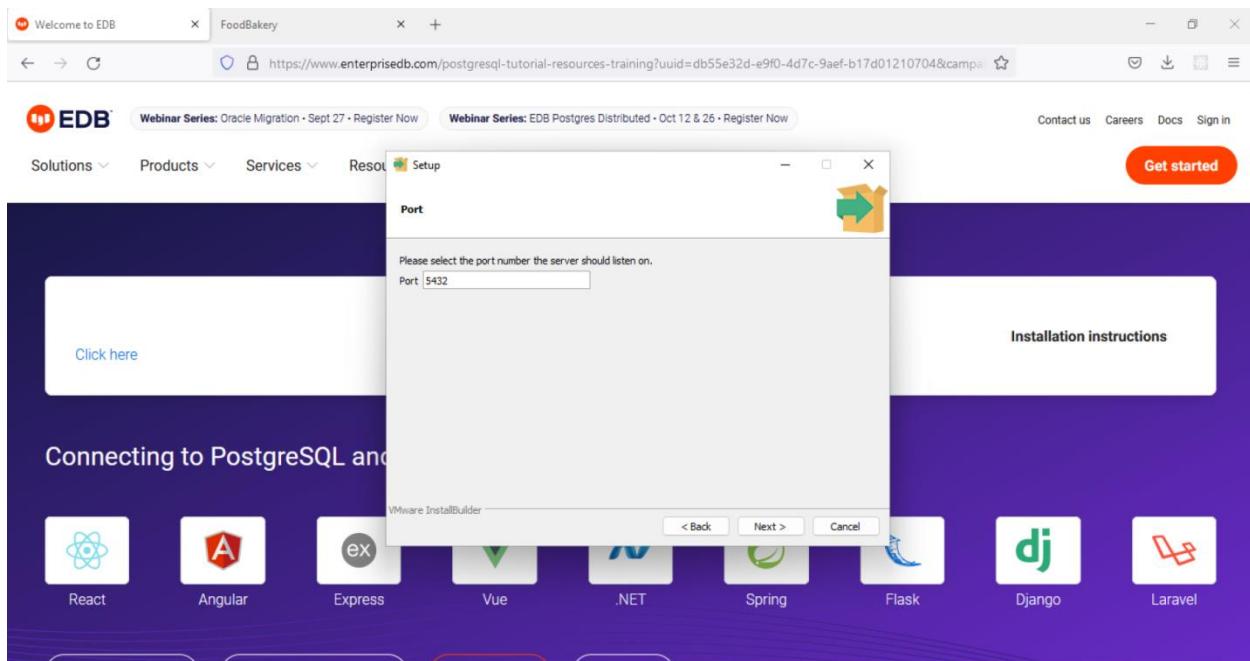
[Cookie preferences](#) [Okay, got it](#)

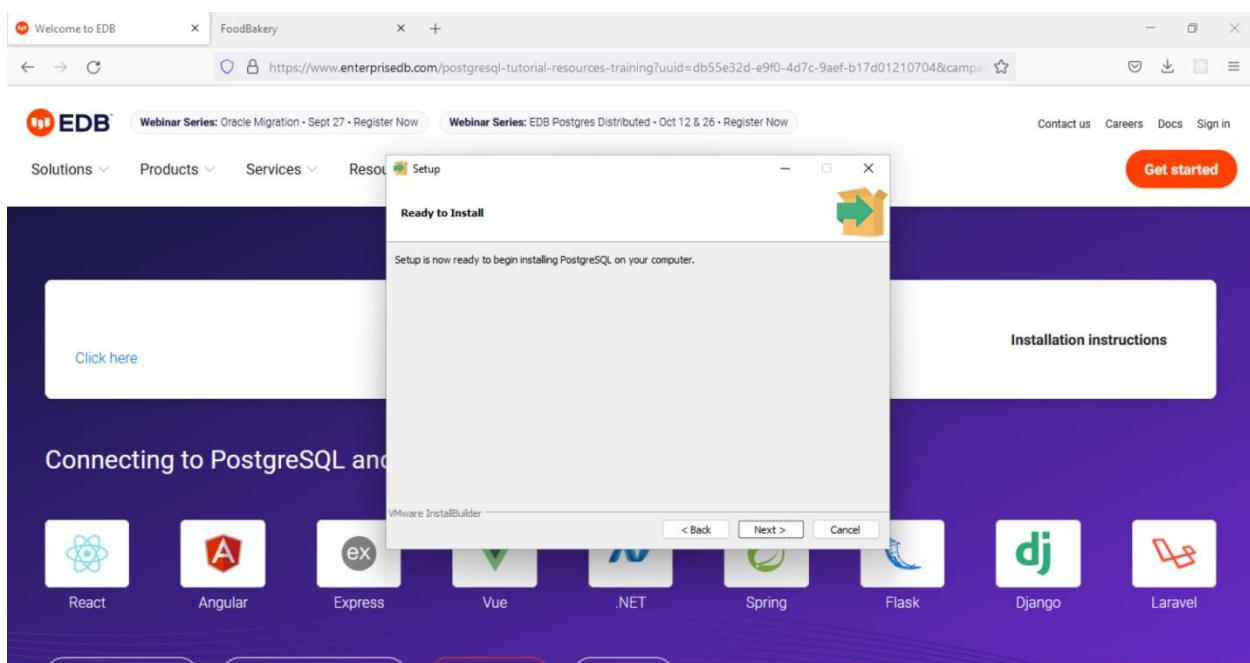
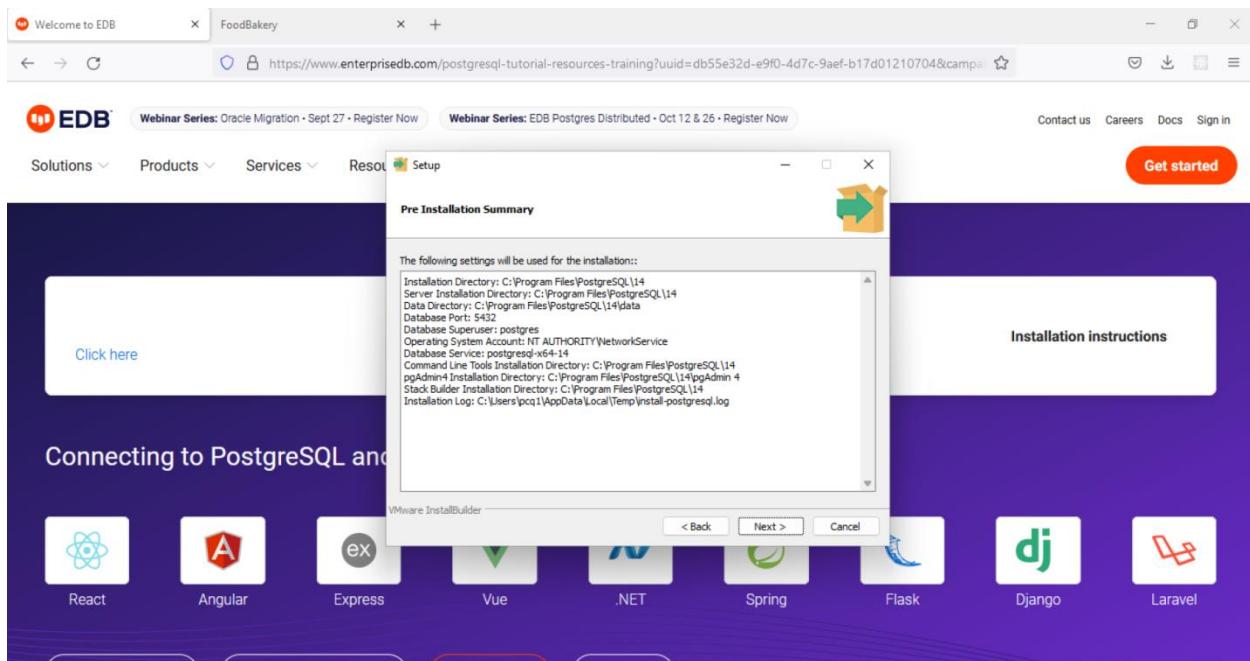


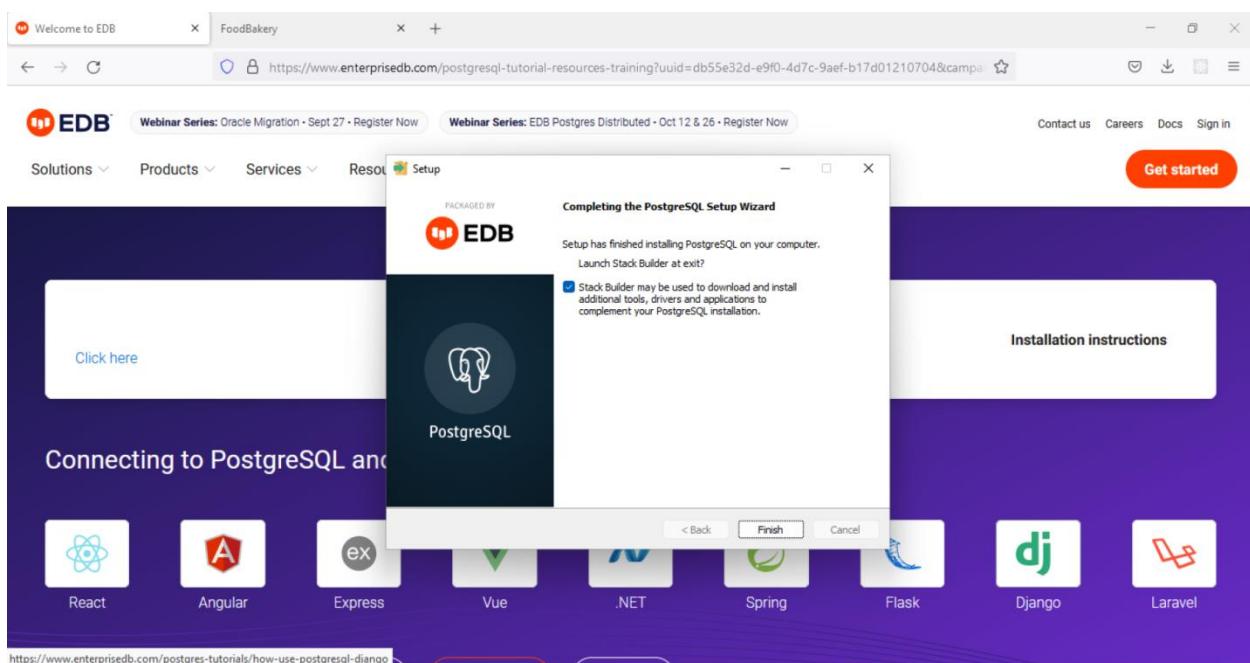
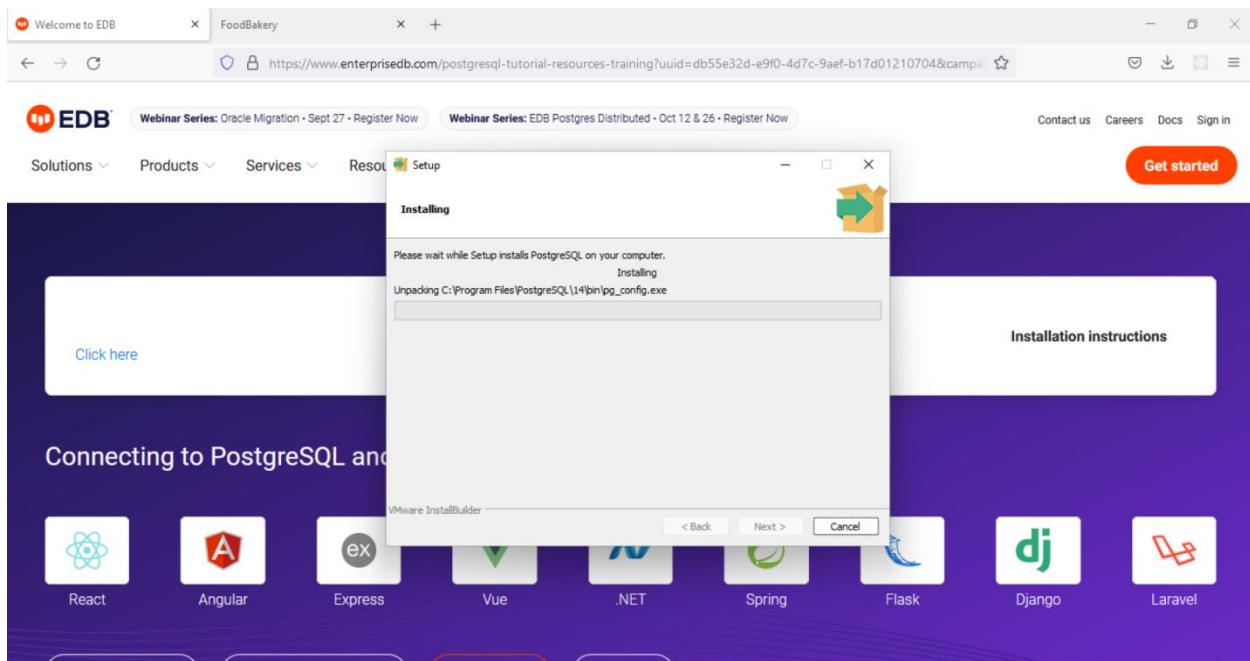


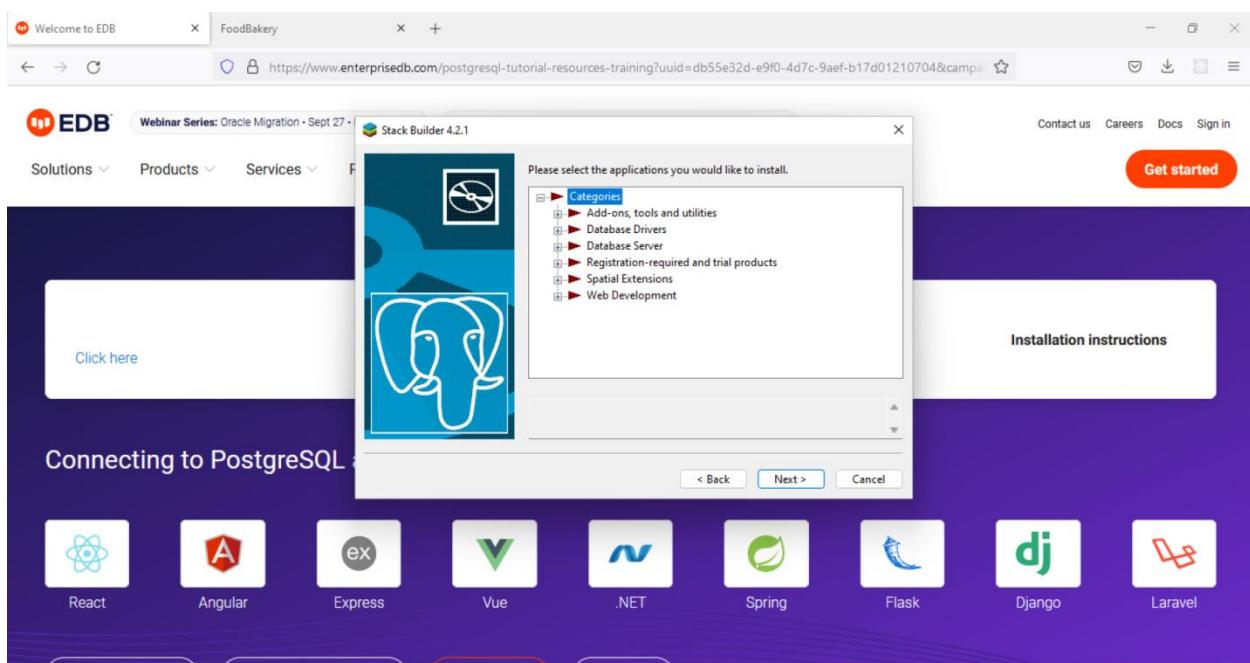
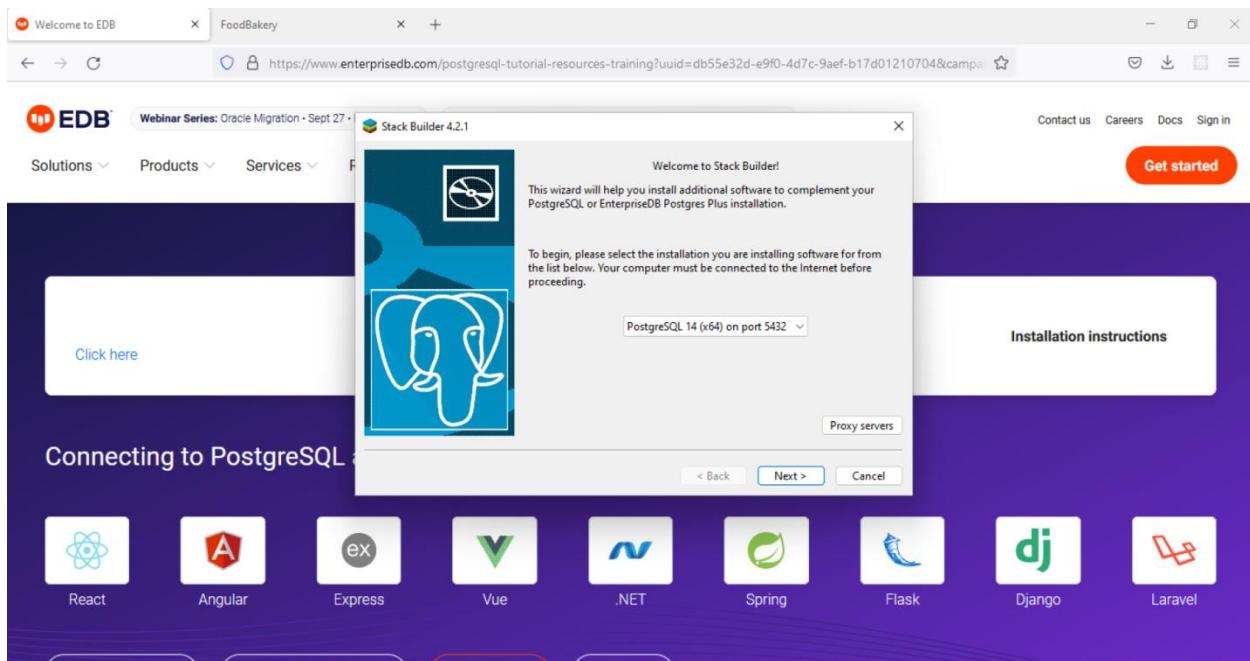


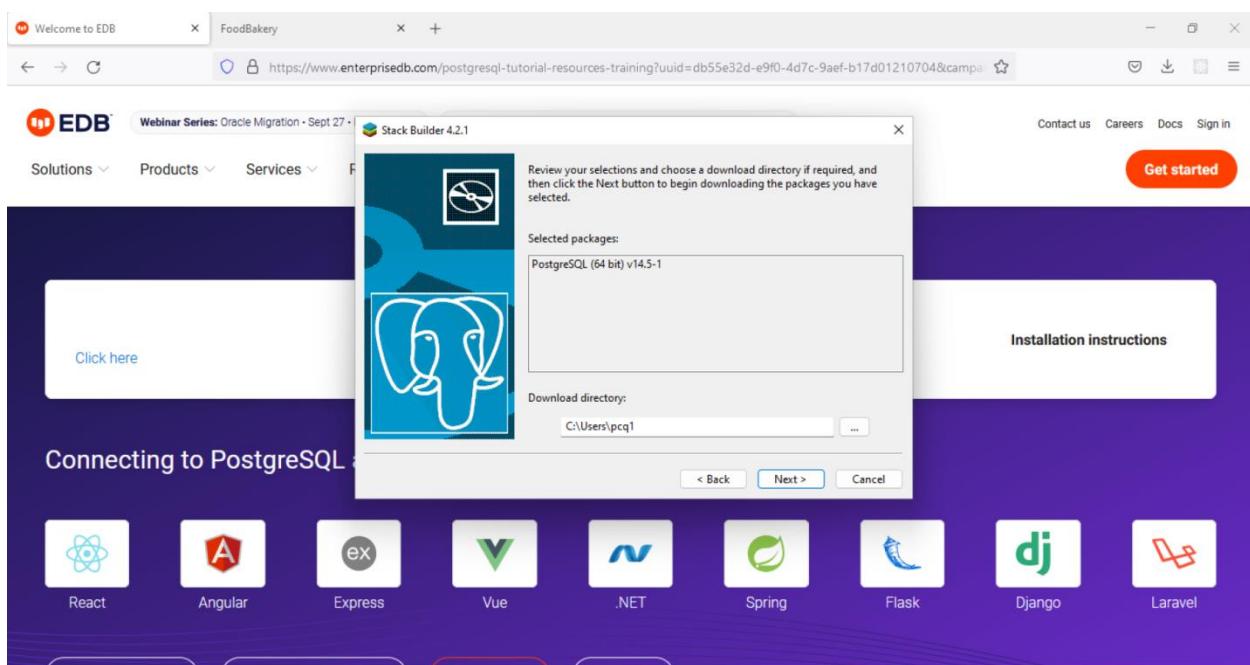
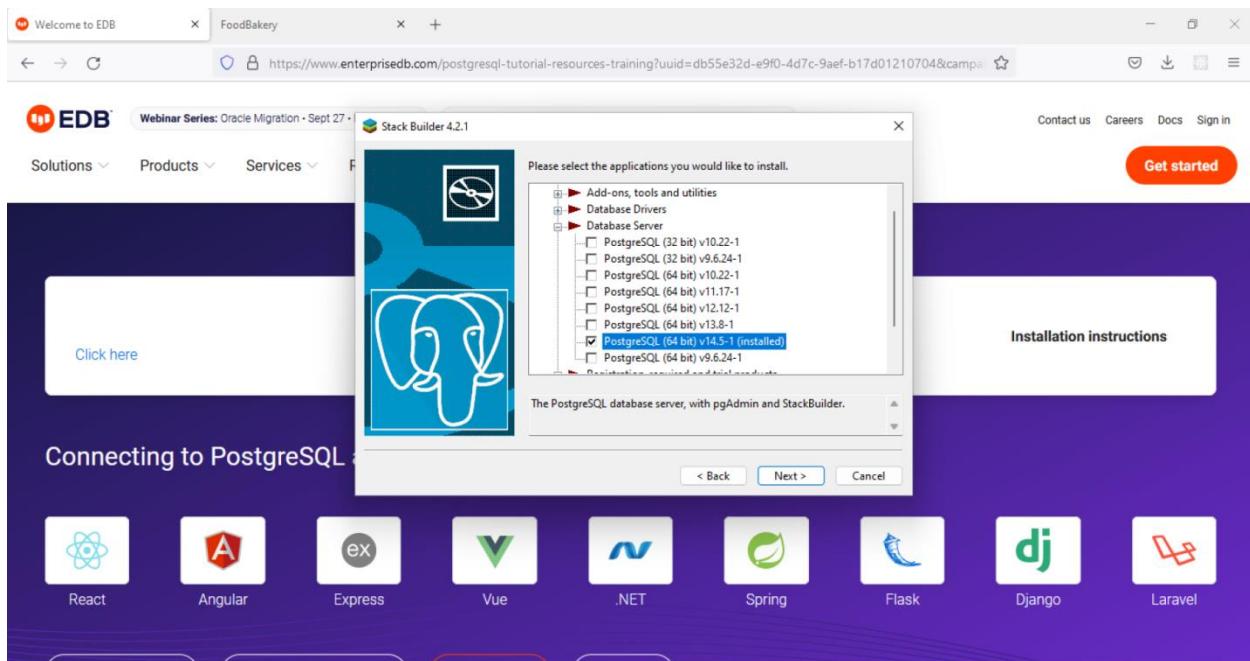


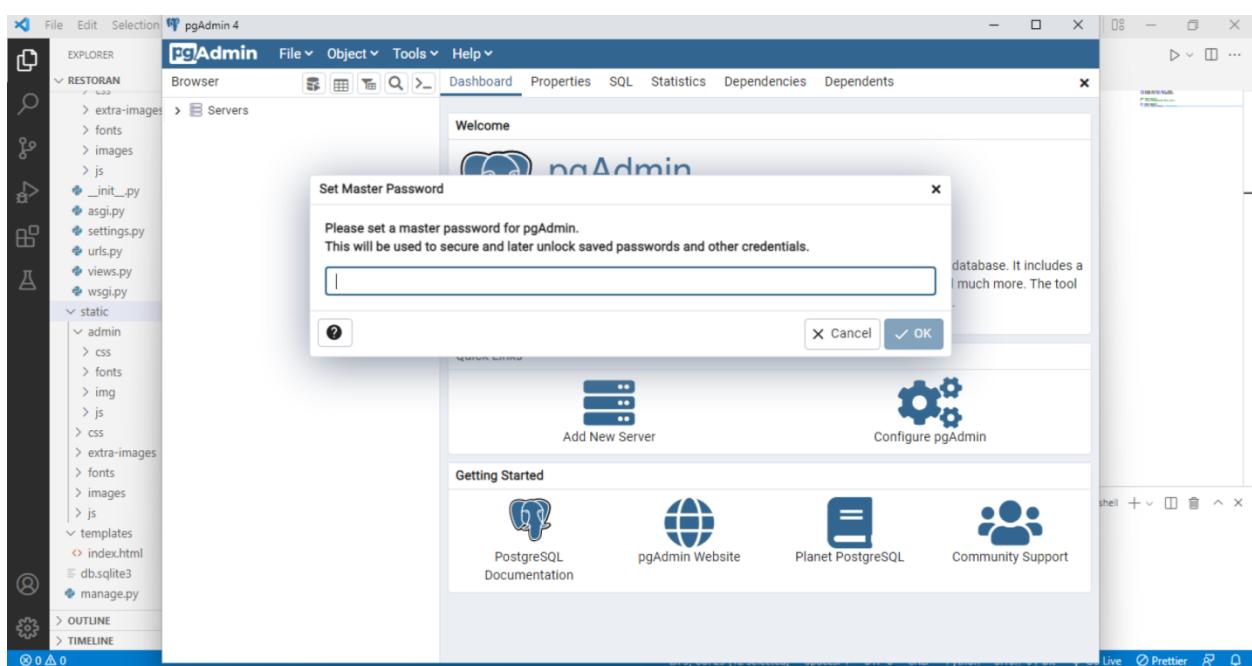
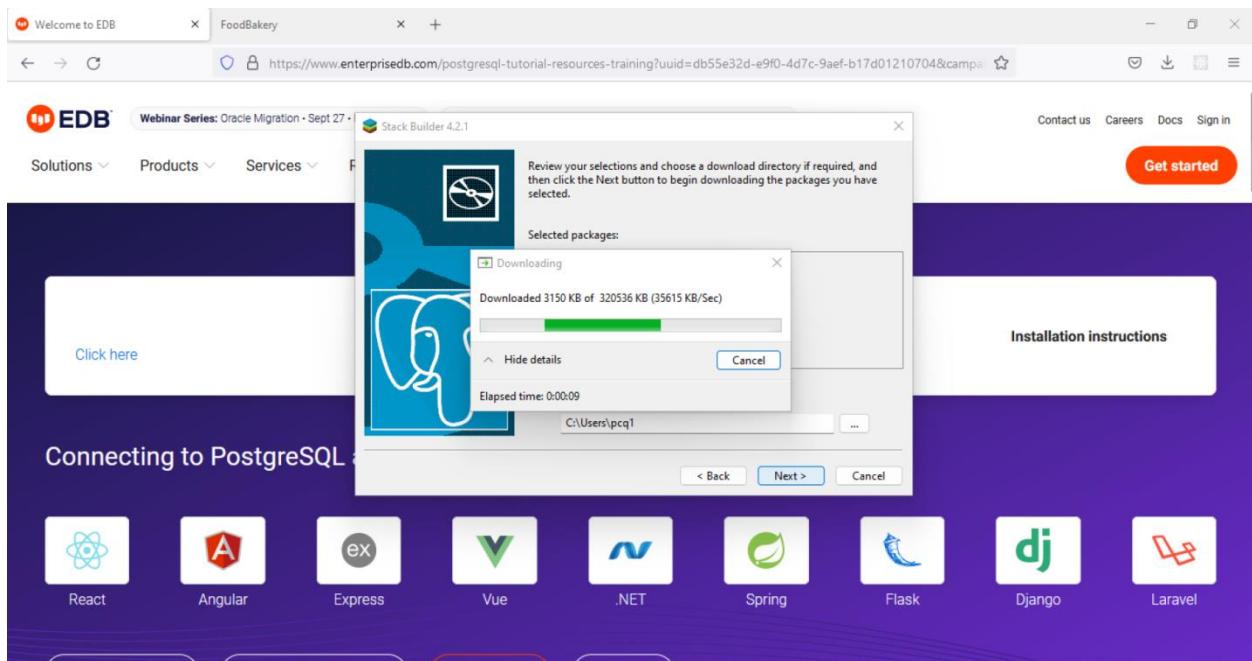














The screenshot shows the Visual Studio Code editor with the 'settings.py' file open. The code defines several settings for a Django application:

```
restoran_main > settings.py > ...
64     'django.contrib.auth.context_processors.auth',
65     'django.contrib.messages.context_processors.messages',
66 ],
67 },
68 ],
69 ]
70 ],
71 WSGI_APPLICATION = 'restoran_main.wsgi.application'
72 ],
73 ],
74 # Database
75 # https://docs.djangoproject.com/en/4.1/ref/settings/#databases
76
77 DATABASES = {
78     'default': {
79         'ENGINE': 'django.db.backends.postgresql',
80         'NAME': 'restoran',
81         'USER': 'postgres',
82         'PASSWORD': 'mimin123',
83         'HOST': 'localhost',
84     }
85 }
```

The code editor highlights syntax in blue and red, and shows several error messages in the bottom right corner, indicating issues with importing psycopg2:

- File "E:\python\restoran\env\lib\site-packages\django\db\utils.py", line 113, in load\_backend  
return import\_module("%s.base" % backend\_name)
- File "C:\Users\pcq1\AppData\Local\Programs\Python\Python310\lib\importlib\\_init\_.py", line 126, in import\_module  
return \_bootstrap.\_gcd\_import(name[level:], package, level)
- File "E:\python\restoran\env\lib\site-packages\django\db\backends\postgresql\base.py", line 28, in <module>  
raise ImproperlyConfigured("Error loading psycopg2 module: %s" % e)
- django.core.exceptions.ImproperlyConfigured: Error loading psycopg2 module: No module named 'psycopg2'

```
File Edit Selection View Go Run Terminal Help settings.py - restoran - Visual Studio Code [Administrator]
EXPLORER ... views.py urls.py settings.py index.html # style.css
RESTORAN
> extra-images
> fonts
> images
> js
> __init__.py
> asgi.py
> settings.py
> urls.py
> views.py
> wsgi.py
static
admin
> css
> fonts
> img
> js
> css
> extra-images
> fonts
> images
> js
templates
> index.html
db.sqlite3
manage.py
OUTLINE
TIMELINE
Ln 83, Col 29 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit Go Live Prettier
File "E:\python\restoran\env\lib\site-packages\django\db\utils.py", line 113, in load_backend
    return import_module("%s.base" % backend_name)
File "C:\Users\pcq1\AppData\Local\Programs\Python\Python310\lib\importlib\_init_.py", line 126, in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
File "E:\python\restoran\env\lib\site-packages\django\db\backends\postgresql\base.py", line 28, in <module>
    raise ImproperlyConfigured("Error loading psycopg2 module: %s" % e)
django.core.exceptions.ImproperlyConfigured: Error loading psycopg2 module: No module named 'psycopg2'
PS E:\python\restoran> pip install psycopg2
```

PS E:\python\restoran> pip install psycopg2

```
File Edit Selection View Go Run Terminal Help settings.py - restoran - Visual Studio Code [Administrator]
EXPLORER ... views.py urls.py settings.py index.html # style.css
RESTORAN
> extra-images
> fonts
> images
> js
> __init__.py
> asgi.py
> settings.py
> urls.py
> views.py
> wsgi.py
static
admin
> css
> fonts
> img
> js
> css
> extra-images
> fonts
> images
> js
templates
> index.html
db.sqlite3
manage.py
OUTLINE
TIMELINE
Ln 83, Col 29 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit Go Live Prettier
django.core.exceptions.ImproperlyConfigured: Error loading psycopg2 module: No module named 'psycopg2'
PS E:\python\restoran> pip install psycopg2
Collecting psycopg2
  Downloading psycopg2-2.9.3-cp310-cp310-win_amd64.whl (1.2 MB)
    1.2/1.2 MB 1.7 MB/s eta 0:00:00
Installing collected packages: psycopg2
Successfully installed psycopg2-2.9.3
PS E:\python\restoran>
```

File Edit Selection View Go Run Terminal Help settings.py - restoran - Visual Studio Code [Administrator]

EXPLORER ... views.py urls.py settings.py index.html # style.css

RESTORAN

```
restoran_main > settings.py > ...
64     'django.contrib.auth.context_processors.auth',
65     'django.contrib.messages.context_processors.messages',
66     ],
67   },
68 ],
69 ]
70
71 WSGI_APPLICATION = 'restoran_main.wsgi.application'
72
73
74 # Database
75 # https://docs.djangoproject.com/en/4.1/ref/settings/#databases
76
77 DATABASES = {
78     'default': {
79         'ENGINE': 'django.db.backends.postgresql',
80         'NAME': 'restoran',
81         'USER': 'postgres',
82         'PASSWORD': 'mimin123',
83         'HOST': 'localhost',
84     }
85 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Starting development server at http://127.0.0.1:8000/  
Quit the server with CTRL-BREAK.  
PS E:\python\restoran> **C**  
PS E:\python\restoran> python manage.py migrate  
Operations to perform:  
 Apply all migrations: admin, auth, contenttypes, sessions  
Running migrations:  
 Applying contenttypes.0001\_initial... **OK**

Ln 83, Col 29 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit Go Live Prettier

File Edit Selection View Go Run Terminal Help settings.py - restoran - Visual Studio Code [Administrator]

EXPLORER ... views.py urls.py settings.py index.html # style.css

RESTORAN

```
restoran_main > settings.py > ...
64     'django.contrib.auth.context_processors.auth',
65     'django.contrib.messages.context_processors.messages',
66     ],
67   },
68 ],
69 ]
70
71 WSGI_APPLICATION = 'restoran_main.wsgi.application'
72
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74 # Database
75 # https://docs.djangoproject.com/en/4.1/ref/settings/#databases
76
77 DATABASES = {
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81         'USER': 'postgres',
82         'PASSWORD': 'mimin123',
83         'HOST': 'localhost',
84     }
85 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Applying auth.0007\_alter\_validators\_add\_error\_messages... **OK**  
Applying auth.0008\_alter\_user\_username\_max\_length... **OK**  
Applying auth.0009\_alter\_user\_last\_name\_max\_length... **OK**  
Applying auth.0010\_alter\_group\_name\_max\_length... **OK**  
Applying auth.0011\_update\_proxy\_permissions... **OK**  
Applying auth.0012\_alter\_user\_first\_name\_max\_length... **OK**  
Applying sessions.0001\_initial... **OK**

PS E:\python\restoran>

Ln 83, Col 29 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit Go Live Prettier

Google search results for "python decouple".

Search term: python decouple

About 979,000 results (0.36 seconds)

Top result:

<https://pypi.org/project/python-decouple/>

**python-decouple - PyPI**

**Python Decouple**: Strict separation of settings from code ... Decouple helps you to organize your settings so that you can change parameters without having to ...

Second result:

<https://simpleisbetterthancomplex.com/2015/11/26/>

**How to Use Python Decouple - Simple is Better Than Complex**

Nov 26, 2015 — Python Decouple is a great library that helps you strictly separate the settings parameters from your source code. The idea is simple: ...

People also ask:

- What is decouple Python?
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python-decouple - PyPI

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# python-decouple 3.6

pip install python-decouple

Latest version

Released: Feb 3, 2022

Strict separation of settings from code.

**Navigation**

- Project description
- Release history
- Download files

**Project description**

**Python Decouple: Strict separation of settings from code**

*Decouple* helps you to organize your settings so that you can change parameters without having to redeploy your app.

File Edit Selection View Go Run Terminal Help

settings.json - restoran - Visual Studio Code [Administrator]

EXT... 🔍 ⌂ ⌂ ... ⌂ views.py U ⌂ urls.py U ⌂ settings.py U ⌂ Extension: Start git-bash ⌂ Settings ⌂ settings.json X # style.css

C: > Users > pcq1 > AppData > Roaming > Code > User > ⌂ settings.json > ...

```
1 {
  "workbench.colorTheme": "Visual Studio Light",
  ...
  "terminal.integrated.profiles.windows": {"Git Bash": {"path": "C:\\Program Files\\Git\\bin\\bash.exe"}, },
  "terminal.integrated.defaultProfile.windows": "Git Bash"
}
```

git GitHub Pull ... ⌂ 7.7M Pull Request and Issue ... GitHub Install Start git-bash Adds a bash command... McCarter Git Merger ⌂ 210K Simplifies the git merg... Shahar Kazaz Install gitignore ⌂ 1.8M Lets you pull .gitignore... CodeZombie Install GitHub Copilot ⌂ 2.4M Your AI pair programmer GitHub Install GitHub Easy ⌂ 151K Making git easy and co... libhasdso Install GitHub Code... ⌂ 1.9M Your instant dev enviro... GitHub Install Git Tree Com... ⌂ 125K Diff your worktree agai... Maik Riechert Install GitHub ⌂ 934K Integrates github and i... KristerPeter ⌂ Git Stash ⌂ 91K Give extra stash abilitie...

TERMINAL JUPYTER

pca1@pcq MINGW64 /e/python/restoran (master)

```
$ pip install python-decouple
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Ln 6, Col 2 Spaces: 4 UTF-8 CRLF JSON with Comments 3.10.7 64-bit Go Live Prettier

File Edit Selection View Go Run Terminal Help

settings.json - restoran - Visual Studio Code [Administrator]

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TERMINAL JUPYTER

```
$ pip install python-decouple
```

Collecting python-decouple  
 Downloading python-decouple-3.6-py3-none-any.whl (9.9 kB)  
Installing collected packages: python-decouple  
Successfully installed python-decouple-3.6

pca1@pcq MINGW64 /e/python/restoran (master)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Ln 6, Col 2 Spaces: 4 UTF-8 CRLF JSON with Comments 3.10.7 64-bit Go Live Prettier