Creating a Python virtual environment on Ubuntu allows you to isolate dependencies for different projects. Here's how you can create one:

1. \*\*Install `virtualenv` (Optional)\*\*: Although Python comes with `venv` module for creating virtual environments, you might prefer using `virtualenv` for more flexibility. You can install it via pip:

```bash

sudo apt update

sudo apt install python3-virtualenv

```

2. \*\*Navigate to Your Project Directory\*\*: Open a terminal and navigate to the directory where you want to create the virtual environment.

3. \*\*Create the Virtual Environment with `venv`\*\*:

```bash

python3 -m venv myenv

```

This command creates a virtual environment named `myenv`. You can replace `myenv` with any name you prefer for your virtual environment.

4. \*\*Activate the Virtual Environment\*\*:

```bash

source myenv/bin/activate

```

After running this command, your terminal prompt should change to indicate that you are now working within the virtual environment. It might look something like `(myenv) user@hostname:~/your\_project\_directory$`.

5. \*\*Install Dependencies\*\*: Now you can use pip to install Python packages just like you would in a global environment, and they will only be accessible within this virtual environment. For example:

```bash

pip install -r requirements.txt

```

This command will install Django within the virtual environment.

6. \*\*Deactivate the Virtual Environment\*\*: When you're done working in the virtual environment, you can deactivate it by simply running:

```bash

deactivate

```

This will return you to your global Python environment.

By creating and using virtual environments, you can manage dependencies for different projects separately, which helps to keep your project dependencies clean and isolated.

Apply database migrations.

```bash

python manage.py migrate

```

Create a superuser account to access the Django admin panel.

```bash

python manage.py createsuperuser

```

Start the development server.

```bash

python manage.py runserver

Open your web browser and access the application at `http://127.0.0.1:8000`