Creating a Python Virtual Environment for a Project

Here are simple, step-by-step instructions to create a Python virtual environment for your project:

Using venv (Python's built-in virtual environment module)

- 1. **Navigate to your project directory** in your terminal:
- 2. cd path/to/your/project
- 3. Create the virtual environment:
- 4. python -m venv venv

This creates a directory called venv in your project folder containing the virtual environment.

- 5. Activate the virtual environment:
 - On Windows:
 - venv\Scripts\activate
 - On macOS or Linux:
 - source venv/bin/activate
- 6. **Verify it's activated** you should see (venv) at the beginning of your command prompt.
- 7. **Update pip** (recommended):
- 8. pip install --upgrade pip
- 9. Install your project dependencies:
- 10. pip install package_name

Or if you have a requirements.txt file:

pip install -r requirements.txt

- 11. **To deactivate** the virtual environment when you're done:
- 12. deactivate

That's it! Your isolated Python environment is ready for development.