

# Getting Started

## Tech Stack

- **Language:** Python 3.14 (Managed via Nix)
- **Framework:** Django
- **Package Manager:** [uv](#) (Fastest Python resolver/installer)
- **Environment:** [Nix](#) (with the `std` library)
- **Command Runner:** `just` (alternative to `make`)

## Setting Up the Environment

FIXME: this is wrong

You do not need to install Python or Django manually. You only need **Nix**.

### Step 1: Install Nix

If you don't have it, install Nix and enable “experimental features” (Flakes and Nix Command).

Consider doing the latter like that:

1) `sudo mkdir /root/.config/nix`

2) `sudoedit /root/.config/nix/nix.conf`

3) In there, add this line `experimental-features = nix-command flakes`

### Step 2: Enter the Development Shell

Navigate to the project root and run:

```
nix develop
```

**What happens when you run this?** Nix reads `shells.nix` and `packages.nix` to:

1. Download and provide **Python 3.14**.

2. Install system tools like `curl`, `git`, `uv`, and `just`.
3. Set up your `PATH` to include the project's virtual environment (`.venv/bin`).
4. Activate a custom shell prompt (the "embed console").

## Step 3: The "Just" Command Runner

Once inside the Nix shell, we use a tool called `just` to run common tasks.

Command	Action
<code>just</code>	Lists all available commands.
<code>just init-db</code>	<b>Run this first.</b> It migrates the DB and asks you to create a Superuser.
<code>just dev</code>	Starts the Django development server.
<code>just make-migrations</code>	Generates new DB migration files after model changes.
<code>just fmt</code>	Automatically formats all code using <code>treefmt</code> .
<code>just test</code>	Runs the Django test suite.

## Step 4: Running the dev server

Consider using these commands after all previous steps:

`nix init-db` creates and initializes the DB, prompting for superuser credentials.

`nix dev` starts a local dev server.

**Congratulations! You are ready to develop.**

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