

Django Setup Notes

1. Create an Outer Project Folder and Navigate to It

First, create an outer project folder to contain both the virtual environment and your Django project.

Commands:

```
# Create an outer project folder
mkdir project_folder

# Navigate into the project folder
cd project_folder
```

2. Create and Activate a Virtual Environment using `virtualenv`

Commands:

```
# Create a virtual environment inside the project folder
virtualenv venv_name

# Activate the virtual environment (Windows)
venv_name\Scripts\activate

# Activate the virtual environment (macOS/Linux)
source venv_name/bin/activate
```

3. Install Django

Once the virtual environment is activated, install Django:

```
pip install django
```

4. Create a Django Project Without Extra Folder

Create a new Django project in the current directory using the dot (.) to avoid creating an extra folder:

```
django-admin startproject project_name .
```

5. Run the Django Development Server

Check if everything is set up correctly by running the development server:

```
python manage.py runserver
```

Visit <http://127.0.0.1:8000/> in your browser to see the Django welcome page.

6. Create a Django App

Inside your project, create a new Django app:

```
python manage.py startapp app_name
```

7. Register the App in `settings.py`

Open `project_name/settings.py` and add your app to the `INSTALLED_APPS` list:

```
INSTALLED_APPS = [  
    # Other installed apps...  
    'app_name',  
]
```

8. Apply Migrations

Run the migrations to set up the database schema:

```
python manage.py makemigrations  
python manage.py migrate
```

9. Run the Server Again

Start the server again to see your app in action:

```
python manage.py runserver
```

This concludes the setup for a Django project and app using `virtualenv`, an outer project folder, and the dot (`.`) to avoid creating an extra folder.