Manual Setup Guide (Backend + Frontend + PostgreSQL via Docker)

This guide explains how to manually run the project using:  
- Django backend  
- React frontend  
- PostgreSQL via Docker  
- Custom `.env` configuration

# 🐘 Step 1: Start PostgreSQL with Docker

Run the following command to start a PostgreSQL container:

docker run --name ecommerce-postgres -e POSTGRES\_DB=ecommerce\_db \  
 -e POSTGRES\_USER=ecommerce\_user -e POSTGRES\_PASSWORD=yourpassword \  
 -p 5432:5432 -d postgres

Ensure it's running on `localhost:5432`.

# ⚙️ Step 2: Django Backend Setup

1. Navigate to the backend folder:

cd service

2. Create a virtual environment and activate it:

python -m venv venv  
source venv/bin/activate # On Windows: venv\Scripts\activate

3. Install requirements:

pip install -r requirements.txt

4. Create and update `.env` inside `service/`:

DEBUG=True  
SECRET\_KEY=your\_secret\_key  
  
DB\_NAME=ecommerce\_db  
DB\_USER=ecommerce\_user  
DB\_PASSWORD=yourpassword  
DB\_HOST=localhost  
DB\_PORT=5432

5. Run migrations and start the server:

python manage.py migrate  
python manage.py runserver

# 💻 Step 3: React Frontend Setup

1. Navigate to frontend folder and install dependencies:

cd ui  
npm install  
npm run dev -- --port 3000

# ✅ Final Check

- PostgreSQL: http://localhost:5432  
- Backend API: http://localhost:8000/api/  
- Frontend: http://localhost:3000