**Plantly Project - Setup & Execution Guide**

**1. Backend (FastAPI + ML Model)**

✅ Prerequisites:

• Python 3.9+ installed

• requirements.txt available in /backend/

• Your ML model code inside main.py or similar

🚀 **Steps to Run Backend:**

cd backend

python -m venv venv

venv\Scripts\activate

pip install -r requirements.txt

uvicorn app:app --reload

📌 By default, the API will run at: [http://localhost:8000](http://localhost:8000/)

Test it in browser: <http://localhost:8000/docs>

**2. Frontend (React / Next.js + Tailwind CSS)**

✅ Prerequisites:

• Node.js and npm installed

• React app set up

**🚀 Steps to Run Frontend:**

cd frontend

npm install

npm run dev

Open in browser: [http://localhost:3000](http://localhost:3000/)

3. How It Works Together

1. User opens [http://localhost:3000](http://localhost:3000/) (React app).

2. Uploads a plant image.

3. React sends image to FastAPI endpoint: <http://localhost:8000/identify-plant>

4. FastAPI returns:

- Plant name

- Description

- Care tips

5. React displays result and tips.