
Quick Start Guide - Medicine Recognition API

Setup in 3 Minutes

POWERSHELL

```
# 1. Install & Migrate
cd e:/Temp/GRAD
python -m venv venv
venv\Scripts\Activate
pip install -r requirements.txt
cd medrec
python manage.py migrate

# 2. Run Server
python manage.py runserver
```

Server: <http://127.0.0.1:8000/>

Admin: <http://127.0.0.1:8000/admin/> (admin/admin123)

API Endpoints Cheatsheet

Auth

POST /auth/register/	→ Register + get tokens
POST /auth/login/	→ Login + get tokens
POST /auth/logout/	→ Logout (blacklist token)
POST /auth/token/refresh/	→ Refresh access token
GET /auth/profile/	→ Get user info
PATCH /auth/profile/update/	→ Update profile
POST /auth/password/change/	→ Change password

Uploads

POST /api/uploads/new/	→ Upload medicine image
GET /api/uploads/	→ List user's uploads

Quick Test

1. Register

```
BASH
```

```
curl -X POST http://127.0.0.1:8000/auth/register/ \
-H "Content-Type: application/json" \
-d '{"username": "demo", "email": "demo@test.com", "password": "Demo123!", "password2": "Demo123!"}
```

Response: Gets `access` and `refresh` tokens

2. Upload Image

```
BASH
```

```
curl -X POST http://127.0.0.1:8000/api/uploads/new/ \
-H "Authorization: Bearer YOUR_ACCESS_TOKEN" \
-F "image=@medicine.jpg"
```

Response: Gets image URL and AI result

Flutter Connection

```
DART
```

```
// Android Emulator
static const baseUrl = 'http://10.0.2.2:8000';

// iOS Simulator
static const baseUrl = 'http://127.0.0.1:8000';

// Real Device (use your PC's IP)
static const baseUrl = 'http://192.168.1.5:8000';
```

Run server for mobile:

```
POWERSHELL
```

```
python manage.py runserver 0.0.0.0:8000
```

JWT Token Usage

All authenticated requests need:

```
Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGc...
```

Token Lifetime:

- Access: 1 hour
- Refresh: 7 days

Refresh when expired:

```
BASH
curl -X POST http://127.0.0.1:8000/auth/token/refresh/ \
-H "Content-Type: application/json" \
-d '{"refresh": "YOUR_REFRESH_TOKEN"}'
```

Project Structure

```
medrec/
  accounts/          → Auth (register, login, profile)
  api/               → Uploads (image upload, AI inference)
  core/              → AI service (ai_service.py - EDIT THIS)
  medrec/            → Settings
  media/             → Uploaded images
```

Add Your AI Model

Edit: `medrec/core/ai_service.py`

```
PYTHON
def infer(image_path: str) -> dict:
    # Replace with your model
    # Example: TensorFlow, PyTorch, API call

    return {
        'predicted_name': 'aspirin',
        'confidence': 0.95,
        'description': 'Details...'
    }
```

Full Documentation

- API_DOCUMENTATION.md - All endpoints (English)
 - API_DOCUMENTATION_AR.md - All endpoints (Arabic)
 - FLUTTER_INTEGRATION.md - Flutter code (English)
 - FLUTTER_INTEGRATION_AR.md - Flutter code (Arabic)
 - README.md - Main README
-

Common Commands

```
POWERSHELL
# Create superuser
python manage.py createsuperuser

# Make migrations
python manage.py makemigrations
python manage.py migrate

# Run server
python manage.py runserver

# Run server for mobile
python manage.py runserver 0.0.0.0:8000

# Shell
python manage.py shell
```

Quick Fixes

Can't connect from Flutter?

→ Use `0.0.0.0:8000` and correct IP

Upload fails?

→ Check token in Authorization header

Token expired?

→ Use refresh endpoint

Image not showing?

→ Check `MEDIA_URL` and `MEDIA_ROOT` in settings

Built for Graduation Project ■