

Django Project Structure - BoneMetastasesProject

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BoneMetastasesProject/

aipipeline/ # Main Django project configuration
 __init__.py # Python package initializer
 settings.py # Project settings (apps, DB, static/media, auth user model)
 urls.py # Root URL routing
 wsgi.py / asgi.py # WSGI/ASGI for deployment

accounts/ # Custom authentication system
 admin.py # Optional: register custom user model
 apps.py # App config
 forms.py # Login/Signup forms
 models.py # Custom User model with role
 urls.py # Auth routes
 views.py # Auth logic (login, signup, logout)
 templates/accounts/ # Auth HTML templates
 login.html
 signup.html

segmentation/ # Main U-Net AI + clinical app
 unet.py # U-Net model architecture
 views.py # Core logic: upload, inference, results
 urls.py # Routes to main EPR dashboard
 templates/index.html # Main web UI
 static/ # Result images, CSS/JS

media/ # Uploaded images & results
results/ # Optional: extra result images
model/ # Trained model weights (Model_50.pth)
test_images/ # CT image test files
unet_inference.py # Standalone U-Net test script

db.sqlite3	# SQLite DB
manage.py	# Django launcher
requirements.txt	# Python dependencies
Dockerfile	# Docker container config
.dockerignore	# Excludes files from Docker build