

3D Print Marketplace – Django File & App Structure

This document shows the recommended Django project and app-level folder structure for a multi-vendor 3D print marketplace. The structure emphasizes separation of concerns, scalability, and long-term maintainability.

1. Project Root

```
3dprint_marketplace/
■■■ manage.py
■■■ requirements.txt
■■■ .env
■■■ README.md
■■■ docker-compose.yml      (optional)
■■■ Dockerfile              (optional)
■
■■■ config/                  # Django project configuration
■   ■■■ __init__.py
■   ■■■ asgi.py
■   ■■■ celery.py           # background tasks
■   ■■■ settings/
■   ■   ■■■ __init__.py
■   ■   ■■■ base.py
■   ■   ■■■ dev.py
■   ■   ■■■ prod.py
■   ■■■ urls.py
■   ■■■ wsgi.py
```

2. Core Django Apps

```
■■■ accounts/                # Authentication & roles
■   ■■■ models.py           # User, SellerProfile, ConsumerProfile
■   ■■■ views.py
■   ■■■ forms.py
■   ■■■ urls.py
■   ■■■ permissions.py
■   ■■■ templates/accounts/
■
■■■ storefront/              # Public-facing pages
■   ■■■ views.py
■   ■■■ urls.py
■   ■■■ services.py         # ranking, featured logic
■   ■■■ templates/storefront/
■
■■■ sellers/                  # Seller dashboard
■   ■■■ models.py           # Seller, StripeAccount
■   ■■■ views/
■   ■   ■■■ dashboard.py
■   ■   ■■■ products.py
■   ■   ■■■ orders.py
```

- ■■■ urls.py
- ■■■ templates/sellers/

3. Products, Orders & Media

- products/
 - ■■■ models.py # Product, Category, Media, License
 - ■■■ validators.py # STL checks, size limits
 - ■■■ views.py
 - ■■■ urls.py
 - ■■■ templates/products/
 -
- orders/
 - ■■■ models.py # Order, LineItem, Download
 - ■■■ fulfillment.py # physical item handling
 - ■■■ views.py
 - ■■■ urls.py
 - ■■■ templates/orders/

4. Payments & Financial Flow

- payments/
 - ■■■ stripe.py # Stripe Checkout & Connect
 - ■■■ webhooks.py
 - ■■■ models.py # Payouts, Fees
 - ■■■ views.py
 - ■■■ urls.py

5. Moderation, Reviews & Legal

- moderation/
 - ■■■ models.py # Reports, DMCA, Flags
 - ■■■ views.py
 - ■■■ admin.py
 -
- reviews/
 - ■■■ models.py # Ratings, Feedback
 - ■■■ views.py
 -
- legal/
 - ■■■ templates/legal/
 - ■ ■■■ terms.html
 - ■ ■■■ privacy.html
 - ■ ■■■ refund_policy.html

6. Static Files & Media

- static/
 - ■■■ css/
 - ■■■ js/
 - ■■■ images/
 -

```
■■■ media/
■   ■■■ product_files/          # private STL storage
■   ■■■ product_images/
■   ■■■ seller_assets/
```

This structure is intentionally modular. You can build and ship the storefront first, then add seller tooling, payments, and moderation incrementally without refactoring the core.