

# 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
    ├── 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
            ├── 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.