**Aārta -( Spirit‑woven Creations)**

Blend of “Art” and “Aaradhana” (devotion), or “Aarambh” (beginning).

**Art gallery Web Application Project**

Imagine a digital gallery where creativity meets commerce.

We're building an online platform to **showcase and sell unique artworks, handmade crafts, and gift items** — starting with our own creations and gradually opening the stage for other passionate artists.

Built using **HTML, Tailwind CSS, JavaScript, Django, and PostgreSQL**, the platform follows a **3-tier architecture** to ensure a smooth, secure, and scalable experience for both creators and customers.

**Our Vision**

To **empower local and independent artists** by providing a digital space where their creativity meets commerce. We envision a vibrant community-driven marketplace where unique art and handmade creations reach appreciative audiences around the world.

**Our Mission**

* To **build a user-friendly, scalable, and secure online platform** that connects creators and customers.
* To **support emerging and independent artists** by offering them tools to promote, manage, and sell their work with ease.
* To **deliver a seamless customer experience** where users can discover and purchase one-of-a-kind art and handcrafted items.
* To **foster creativity, cultural expression, and entrepreneurship** through technology.

**Functional requirements**

**Modules :-**

**User Management**

* User Registration & Login (with role selection: Buyer / Artist)
* Profile Management (name, bio, profile pic, contact info)
* Password Reset / Forgot Password
* Email Verification (optional but recommended)
* Role-based Dashboard Redirection
* Admin User Management (view, delete, ban users)

**Product Management**

* Product Upload Form (title, category, price, description, tags, image upload)
* Edit / Delete Product Listings
* Product Approval (Admin-controlled)
* Product Visibility Toggle (active/inactive status)

**Search & Filtering**

* Full-Text Search Bar
* Filter by Category, Price, Tags, Popularity
* Sort by Newest, Price (Low–High / High–Low), Top Rated
* Tag-based Navigation
* Auto-suggest or Search Hints (optional)

**Order Management**

* Add to Cart / Remove from Cart
* Cart Summary with Totals
* Address & Shipping Details Form
* Place Order / Confirm Order Page
* Order Status Tracking (Pending, Shipped, Delivered)
* Order History Page for Users
* Artist Order Notifications (for new sales)

**Review & Rating System**

* Submit Review (stars + text) post-purchase
* View Reviews on Product Detail Page
* Edit/Delete Own Review
* Admin Review Moderation
* Average Rating Calculation per Product

**API Layer**

* REST APIs for all CRUD operations (Users, Products, Orders, Reviews)
* Authentication APIs (Login, Logout, Register)
* Secure endpoints using JWT or Session Auth
* Pagination & Filtering in API responses
* Error Handling & Response Formatting

**Non-Functional Requirements**

* **Scalability:** Built using Django and PostgreSQL to support a growing number of users and artworks.
* **Responsiveness:** Frontend built with Tailwind CSS ensures mobile-first design and cross-device compatibility.
* **Security:** Encrypted user credentials, secure file uploads, CSRF protection, and secure payment integration.
* **Performance:** Optimized queries, image compression, and efficient database structure to reduce load time.
* **Usability:** Intuitive, minimal, and elegant UI/UX for both creators and customers.
* **Maintainability:** Modular and well-documented codebase for easier updates and debugging.

**ER Diagram:**

