

Project Proposal: 3D Print Shop Marketplace

Description & Motivation

Many small 3D printing businesses struggle to showcase their products and manage orders efficiently. Currently, creators often rely on social media or general marketplaces like Etsy, which don't cater specifically to the needs of 3D printing shops. This web application will provide a dedicated platform for a 3D printing business to display their catalog, accept orders, and gather customer feedback through reviews.

The platform solves several user problems: customers can easily browse available 3D printed items, see detailed product information and reviews from other buyers, and place orders directly. The shop owner can manage their inventory, track orders, and build credibility through a review system. While this MVP won't process actual payments, it establishes the foundation for a full e-commerce solution that could later integrate payment processing.

MVP Features

User registration and login - Customers can create accounts and log in

Browse product catalog - View all available 3D printed items with images and descriptions

View product details - See individual product pages with specifications, price, and customer reviews

Add items to cart - Users can add multiple items to their shopping cart

Submit orders - Users can place orders (saved to database without payment processing)

Order history - Users can view their past orders and order status

Leave product reviews - Customers can rate and review items they've ordered

Admin product management - Shop owner can add, edit, and delete products from the catalog

Admin order management - Shop owner can view all orders and update order status (pending, processing, shipped, completed)

Major Pages

Homepage/Catalog - Grid view of all available products with search/filter capabilities

Product Detail Page - Individual product page showing description, price, images, specifications, and customer reviews. This will also have the functionality of displaying the 3D model of the

Shopping Cart - View cart contents, adjust quantities, and proceed to checkout

Checkout Page - Review order and submit (no payment processing in MVP)

User Dashboard - View order history and account information

Product Review Page - Leave a review for a product (accessible after ordering)

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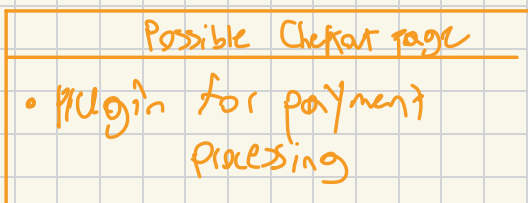
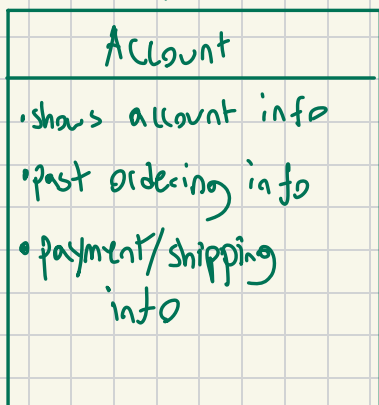
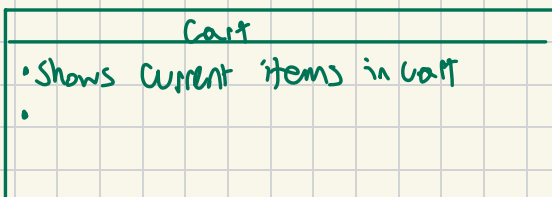
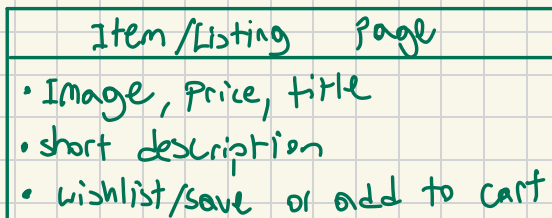
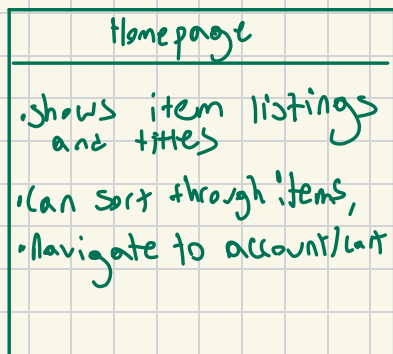
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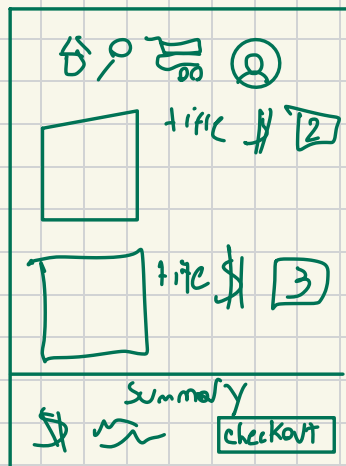
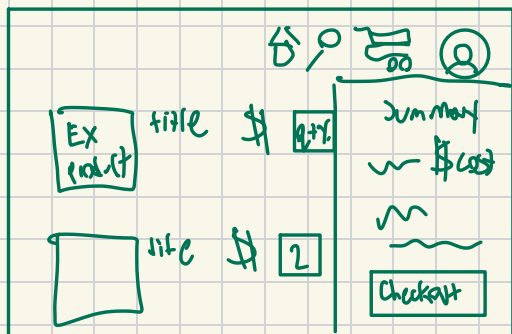
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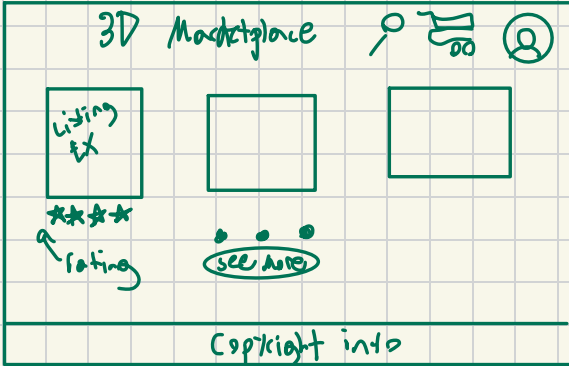


Cart Page

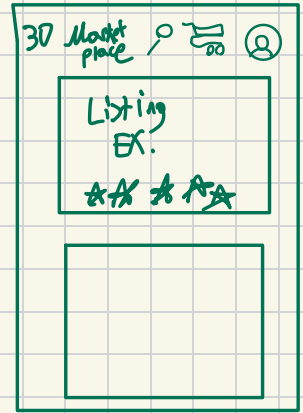


Homepage Sketches

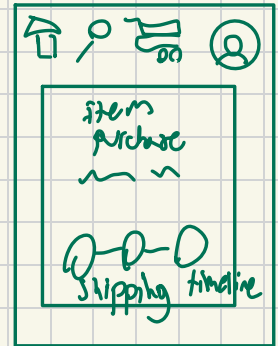
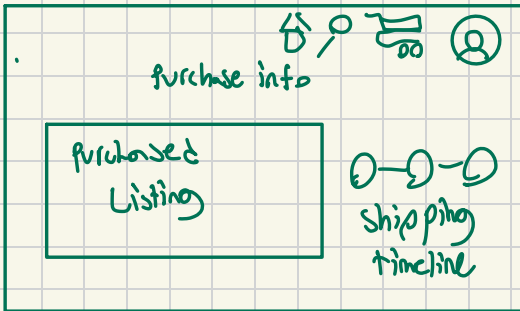
Web



Mobile



Account - Page sketches



Item - Listing page

