

# ECOWEAR

*Rent And Resell Designer Fashion*

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## INTRODUCTION

EcoWear is a simple, secure marketplace to rent or resell designer fashion, from bridal lehengas and groom sherwanis to luxury bags and heels, so you can enjoy high-end style without the one-day price tag. Built for affordability and sustainability, it's easy to list verified pieces, browse curated categories, compare rent vs. buy, and check real-time availability. We support a global audience with a country/currency selector, clear sizing, and safe checkout. Accessibility is built in, screen-reader labels, keyboard-friendly navigation, high-contrast and reduced-motion options, so everyone can participate. By extending the life of special-occasion outfits, we reduce waste and make designer style more attainable, one event at a time.

- ★ WEB DEVELOPMENT  
code and layout scripting

# **TECHNICAL IMPLEMENTATION PLANS**

# SYSTEM ARCHITECTURE DIAGRAM

- Frontend: HTML, Tailwind CSS, PHP, JavaScript and TypeScript
- Backend: Firebase(Authentication, Firestore, Hosting), Firebase Storage(images), Cloud Functions(webhooks).
- Payments: Stripe (test mode) for card-like flows
- Hosting/CI: Firebase Hosting + GitHub Actions (build & deploy)
- Analytics/Logs: Google Analytics (basic events), Firebase logs

# LOGICAL FLOW DIAGRAM

## EXAMPLE FLOW DIAGRAMS:

### Flow 1 — Buyer: Browse → Rent/Buy → Checkout

Login/Sign up → choose Women/Men → browse → open Product → toggle Rent / Buy (enter days if Rent) → Add to Cart → Checkout (shipping form) → Payment method → Order confirmation (email receipt)

### Flow 2 — Seller: List Item → Verification → Live

Login → Sell → choose Category → enter Title, Brand, Size, Condition, Price (USD), Rent/day, Availability dates → Upload images → Submit → Verification (quality/brand check) → Listing appears in selected category

### Flow 3 — Wishlist & Reviews

Login → browse → ❤️ add to Wishlist → open from Wishlist → Rent/Buy → after return/purchase → Leave star rating & review

# LOGICAL FLOW DIAGRAM

## EXAMPLE FLOW DIAGRAMS:

### Flow 4 — Country & Currency Selection

Click  → choose USA / EUR / UK / Pakistan / India / Bangladesh → prices convert (USD default) → size/labels adjust to region → continue shopping

### Flow 5 — Quick “Buy Now” (no rental)

Login → search/filters → Product (Buy selected) → Add to Cart / Buy Now → Checkout → Payment → Confirmation

# UI MOCKUPS



## Rent Elegance. Resell Style

Designer bridal, traditional wear, bags and heels - at a fraction of retail

(Search designer, item, size...)

Search

Browse

Browse All Sections

All

Women

Men

Shop by Category



Designer Bridal Dresses

Explore curated designer  
bridal dresses



Designer Traditional  
wedding Dresses

Explore curated designer  
traditional wedding  
dresses



Designer Bags

Explore curated groom  
suits and sherwanis



Designer shoes/heels

Explore curated designer  
shoes/heels



Groom Suits and  
Sherwanis

Explore curated groom  
suits and sherwanis

chat with sales

→ 1(929) 283-8043

✉ sales@ecowear.com

Help

FAQ

Shipping and returns

Payment Methods

Sizing Guide

Careers

Connect  
Join our mailing list for updates

Email Address

Join

## List Your Designer Item

Upload details, choose category and Men / Women section, specify sizes, and set availability for rents.  
(Note: Designer traditional wedding dresses is for women only).

Title

Brand

Choose Category



Section

 Women    Men

Price (USD)

mm / dd / yyyy



mm / dd / yyyy



Size (e.g., 38EU, M, 40R)

Rent per day (USD)

Images: Upload in next step • Verification required for designer labels • Secure payments & deposits for rentals

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## How Renting Works

1. Choose Men or Women section, then pick a category.
2. Select dates, pay a refundable deposit, then check out securely.
3. Receive, wear, return - ratings keep the community trusted.

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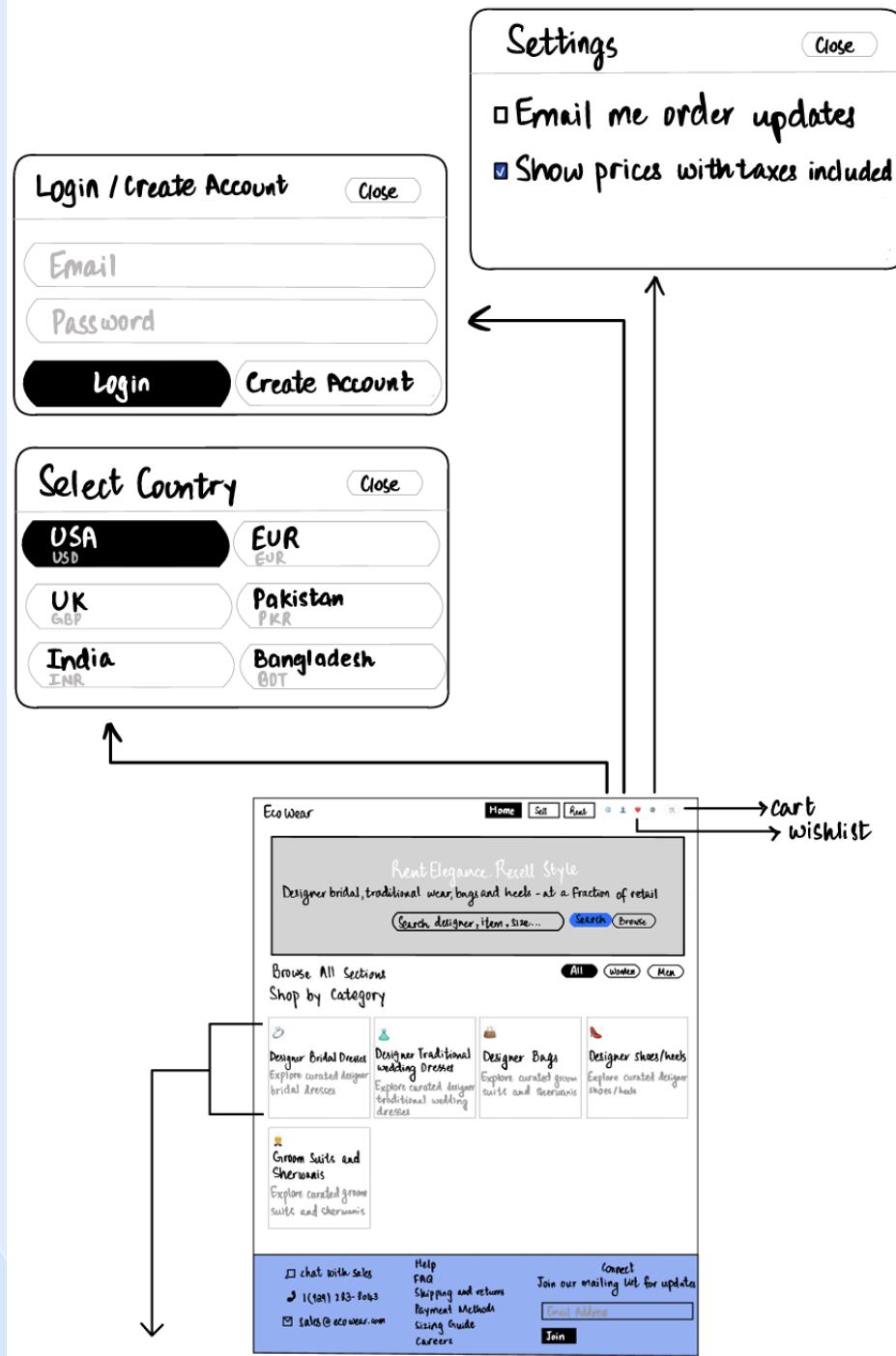
Sizing Guide

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## Browse All Sections

### Designer Bridal Dresses

[All](#)[Women](#)[Men](#)[Filter Results...](#)

Picture

Women

Sabyasachi Bridal Lehenga (Maroon)

Buy: \$ 2,200      Rent/day: \$ 160.00

★★★★★ 4.9

Picture

Women

Hussain Rehar Bridal Lehenga

Buy: \$ 2,500      Rent/day: \$ 200.00

★★★★★ 4.5

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# Sabyasachi Bridal Lehenga (Maroon)

**Close**

**Picture**

Women

Sabyasachi Bridal Lehenga (Maroon)

**Sub Total : \$1480.00**

Brand : Sabyasachi

Section : Women

Size : Small

★★★★★ 4.9

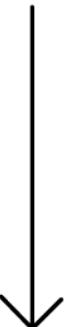
**Rent**

**Buy**

Days :  x \$ 160.00 /day

Refundable deposit : \$ 1000.00

**Add to Cart**



# Your Cart

[Close](#)

[Photo](#)

Sabyasachi Bridal Lehenga (Maroon)

Rent: 3 day(s)

\$1480.00

1 item

Total : \$ 1480

[Proceed To Checkout](#)



# Checkout

Close

## Shipping

Full Name

Address

City

Postal Code

Phone

Proceed To Payment

Fill in Payment information

Checkout

Order confirmation

# **TENTATIVE SCHEDULE**

# TASKS PLANNING

- **Week 1 (Sep 29–Oct 4):** Finalize hi-fi mockups, bootstrap React+TS/Tailwind, and build Navbar + Home.
- **Week 2 (Oct 6–Oct 12):** Ship Women/Men category pages with filters; add currency selector; cards + wishlist.
- **Week 3 (Oct 13–Oct 19):** Complete Product detail with Rent/Buy + pricing calc; basic a11y; utility tests.
- **Week 4 (Oct 20–Oct 26):** Implement Cart and Checkout UIs with client-side validation and skeleton/empty states.
- **Week 5 (Oct 27–Nov 2):** Build Sell form (category, Men/Women, size, dates) + image preview; footer/FAQ pages.
- **Week 6 (Nov 3–Nov 9):** Model Firestore; wire listings read/write; enable email/password auth & route guards.

# TASKS PLANNING

- **Week 7 (Nov 10–Nov 16):** Add profile basics (addresses, orders); Stripe test payment flow + webhook stub; responsive QA.
- **Week 8 (Nov 17–Nov 23):** Run end-to-end tests; fix priority bugs; performance pass; seed demo data; pilot checklist.
- **Week 9 (Nov 24–Nov 30):** Pilot with 3–5 users; apply UX fixes; add reviews/ratings; maintain risk/issue log.
- **Week 10 (Dec 1–Dec 7):** Visual polish; accessibility round-two; integration tests; capture screenshots for slides.
- **Week 11 (Dec 8–Dec 14):** Finalize deck; record demo; rehearse; last fixes; supervisor sign-off.
- **Week 12 (Dec 15–Dec 19):** Code freeze; prepare submission package; upload & verify; buffer; finalize timelog.

## WEEK 1

Task	Descriptions	Estimated Hours needed
Frontend — Convert sketches → hi-fi mockups	Clean up Home, Categories, Product, Cart screens	5 hours
Frontend — Project setup	React + TypeScript, Tailwind, shadcn/ui; repo, ESLint/Prettier	4 hours
Frontend — Navbar & Home	Add Home · Categories · Sell · Rent; hero & search	5 hours
Supervisor check-in	Review scope and milestones; record notes	1 hours

**Total Hours: 15 hours**

## WEEK 2

Task	Descriptions	Estimated Hours needed
Frontend — Women/Men category pages	Grids + filters (brand, size, price); add Groom tile	6 hours
Frontend — Currency selector	🌐 country → currency conversion (USD default)	3 hours
Frontend — Product cards + wishlist	Reusable Card component; ❤️ toggle; hover states	4 hours
Supervisor check-in & short readings	Progress review; capture action items	2 hours

**Total Hours: 15 hours**

## WEEK 3

Task	Descriptions	Estimated Hours needed
Frontend — Product detail sheet	Rent/Buy toggle; photo gallery; details	5 hours
Frontend — Rental pricing calc	Date picker; days × rate; edge cases	4 hours
Accessibility basics	Labels, focus order, keyboard nav	2 hours
Utils unit tests	Price/currency/date helpers (TypeScript)	2 hours
Bugs & small fixes	Quick UI/logic fixes from testing	2 hours
<b>Total Hours: 15 hours</b>		

## WEEK 4

Task	Descriptions	Estimated Hours needed
Frontend — Cart overlay	Add/remove lines; subtotal and taxes placeholder	4 hours
Frontend — Checkout UI	Shipping form and payment method placeholder	5 hours
Form validation	Client-side errors and toasts	3 hours
Empty states & skeletons	Loading and ‘no items’ views	2 hours
Supervisor check-in	Quick review	1 hours

**Total Hours: 15 hours**

## WEEK 5

Task	Descriptions	Estimated Hours needed
Frontend — Sell form	Category + Men/Women; size; availability dates	5 hours
Frontend — Image upload stub	Previews; basic validations	4 hours
Footer & info pages	FAQ, Shipping>Returns, Terms/Privacy	3 hours
UX polish	Input hints; error messages	2 hours
Supervisor check-in	Feedback on Sell flow	1 hours

**Total Hours: 15 hours**

## WEEK 6

Task	Descriptions	Estimated Hours needed
Backend — Firestore data model	Collections: users, listings, orders; draft rules	3 hours
Backend — Listings (read)	Fetch & render with filters	4 hours
Backend — Listings (write)	Submit Sell form → Firestore	4 hours
Backend — Authentication	Email/password login; guard routes	3 hours
Supervisor check-in	Review DB + auth	1 hours

**Total Hours: 15 hours**

## WEEK 7

Task	Descriptions	Estimated Hours needed
Backend — Profile basics	Addresses, wishlist, orders (read-only)	3 hours
Payments — Stripe (test)	Client-side PaymentIntent flow	4 hours
Cloud Function stub	Stripe webhook placeholder	3 hours
Responsive QA	Desktop/tablet/mobile checks	3 hours
Logs & analytics + check-in	Basic events & error logs; quick review	2 hours

**Total Hours: 15 hours**

## WEEK 8

Task	Descriptions	Estimated Hours needed
End-to-end test pass	List → browse → product → cart → checkout	4 hours
Fix priority bugs	Functional/UI issues from tests	3 hours
Performance pass	Image sizing, lazy-load, code-split	3 hours
Seed demo data	A few listings per category	2 hours
Pilot checklist + supervisor user test	Scenarios & acceptance; short test	3 hours

**Total Hours: 15 hours**

## WEEK 9

Task	Descriptions	Estimated Hours needed
Pilot (3–5 users)	Collect feedback & issues	4 hours
UX revisions	Address top usability problems	4 hours
Reviews & ratings	Stars + text review component	3 hours
Risk/issue log + sync	Document gaps & mitigations; quick sync	2 hours
Buffer fixes	Small bugs and content tweaks	2 hours
<b>Total Hours: 15 hours</b>		

## WEEK 10

Task	Descriptions	Estimated Hours needed
Visual polish	Typography, spacing, color audit	3 hours
Accessibility round 2	Contrast, focus traps, ARIA	3 hours
Integration tests	Happy paths + edge cases	4 hours
Slide assets	Final screenshots & diagrams	3 hours
Supervisor review & backup	Final polish plan; repo cleanup	2 hours

**Total Hours: 15 hours**

## WEEK 11

Task	Descriptions	Estimated Hours needed
Final presentation deck	Narrative, diagrams, timelines	5 hours
Record demo	3–5 min walkthrough	3 hours
Rehearsal	Dry run + timing	3 hours
Last fixes	Issues found during rehearsal	3 hours
Supervisor sign-off	Final check	1 hours

**Total Hours: 15 hours**

## WEEK 12

Task	Descriptions	Estimated Hours needed
Code freeze & polish	Lock features; tidy repo	3 hours
Submission package	README, run guide, LICENSE	3 hours
Upload & verify	Submit deck + artifacts	2 hours
Buffer window	Any last-minute bugs	3 hours
Reflection & timelog	Finalize write-up + hours	4 hours
<b>Total Hours: 15 hours</b>		

# DATA SOURCES

# DATA SOURCES

- **User-Generated Content:** Sellers upload and list designer items (bridal lehengas, women's traditional wear, groom sherwanis/waistcoats/suits, luxury bags, heels) for rent or resale with photos and availability dates.
- **Manual Input / Admin Uploads:** Admin curates brand catalog (HSY, MNR, LV, MK, DKNY...), category taxonomy, size charts, verification flags, and takedown reasons (counterfeit/poor quality).
- **External APIs:** Stripe (payments, test mode now), currency-conversion API for country/currency switcher (USD default), optional address autocomplete (e.g., Places-style service) for shipping forms.
- **Platform Stores:** Firebase (Auth, Firestore for documents, Storage for images, Cloud Functions for webhooks/logs) as the primary data backbone.

# NATURE OF THE DATA SETS

- Product listings: title, designerBrand, category (Women: Bridal/Traditional; Men: Groom; Accessories: Bags/Heels), condition, size (with measurements), color, location, priceUSD, rentPerDayUSD, availabilityStart, availabilityEnd, securityDeposit (optional), images[], sellerId, createdAt, status (draft/active flagged).
- User profiles: uid, name, email, role (buyer/seller), country, currencyPreference, addresses[], wishlist[], orders[] (references), verificationStatus, createdAt/updatedAt. Passwords are handled by Auth and not stored in Firestore.
- Orders / rentals: orderId, buyerId, sellerId, items[] (listingId, rent or buy, quantity), rentalDates (start/end), totals (items, fees, deposit, tax, shipping), shippingAddress, fulfillmentStatus, createdAt. Payments: store Stripe paymentIntentId and outcome only; no raw card data.
- Reviews and ratings: itemId, authorId, stars (1–5), comment, optional photos, createdAt, moderationStatus; derived ratingAverage stored on listing.
- Cart / session data: temporary cart lines, selected currency at calculation time, discounts (future).
- Search/filter metadata: brand and category indexes, price-range buckets, size tags, popularity counters; used to speed queries and sorting.
- Audit / moderation / analytics: login and listing actions, report reasons, webhook logs, anonymized event metrics (views, add-to-cart, checkout starts).

# USER CASES

# USER STORY 1

User Story: As a buyer, I want to rent a designer bridal lehenga for a specific weekend so I don't have to buy an expensive outfit for one day.

Scenario: The user logs in, goes to Women → Bridal, filters by HSY and size M, opens a product, switches to Rent, selects Oct 18–20, adds to cart, enters shipping, and pays.

Outputs: A rental order is created, the item's calendar blocks Oct 18–20, and the user sees a confirmation page and receives a confirmation email.

# USER STORY 2

As a seller, I want to list my Mohsin Naveed Ranjha groom sherwani so I can earn by renting or selling it.

Scenario: The user logs in, opens Sell, chooses Men → Groom, fills title, size 40, condition “like new,” price and rent/day, sets availability dates, uploads photos, and submits.

Outputs: The listing is saved with status “pending verification,” then appears in Men → Groom and in the seller’s dashboard once approved.

# USER STORY 3

As a buyer, I want to purchase a luxury bag outright instead of renting.

Scenario: The user logs in, goes to Accessories → Bags, filters brand Louis Vuitton, opens a product, leaves it on Buy, adds to cart, checks out, and pays (prices shown in the selected currency with USD as base).

Outputs: An order is created with fulfillment status “processing,” the listing is marked sold or quantity reduced, and a receipt is shown and emailed.

# USER STORY 4

As a user, I want to save items to a wishlist and be notified when prices or dates change.

Scenario: The user taps the heart icon on a DKNY suit to add it to Wishlist, later returns to Wishlist to view it, and receives an in-app badge when the seller drops the price or opens new dates.

Outputs: The item is stored in the user's wishlist, notifications appear when changes occur, and the user can rent or buy directly from the wishlist item page.

# USER STORY 5

As a recent renter, I want to leave a rating and short review after my rental ends.

Scenario: The user opens Orders, selects the completed rental, chooses “Leave review,” sets 4 stars, writes a brief comment, and submits.

Outputs: The review is saved, the product’s average rating updates, and the review appears on the product page (subject to moderation if flagged).

# Thank you