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# **Software Design and Testing**

## **For Luxchono**

**Prepared by**

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**Course:** IT643

**Date:** 02/12/2025

# **Introduction**

LUXCHONO WATCHES is a form of a digital web platform which facilitates Customer to directly purchase watches from reputed brands.Via this platform buyers will now able to easily purchase their wanted watches.Here is a look at top brands that implement stunning luxury watches.The website provides a platform where buyers directly purchase our branded watches.Luxchono is platform which combines the huge variety of brands at a single spot.So the customers do not need to visit physically any Store.

## **Objectives of the Project**

- To create a user-friendly digital platform for purchasing luxury watches online.
- To provide customers with a wide variety of brands and watch categories at one place.
- To allow users to filter products by brand, category, or price.
- To offer a seamless buying experience with wishlist, cart, checkout, and receipt generation.
- To enable secure online payments using Razorpay along with other payment options like COD.
- To provide an admin interface for managing products, categories, brands, users, and orders efficiently.

## **Tech Stack**

Frontend: React, Tailwind CSS

Backend: Node.js, Express.js

Database: MongoDB

Cloud Services: Cloudinary (Image storage & optimization)

Third-Party Integrations: Razorpay (Payment Gateway Integration) , Tawk.to(Live Chat Support)

# **System Functionalities**

## **User Functionalities :**

### **1. User Registration & Login**

Users can create an account using email verification (OTP) and securely log in to access personalized features such as wishlist, cart, and order history.

### **2. Product Browsing & Detailed View**

Users can explore all available watches with complete details including brand, category, specifications, images, and pricing.

### **3. Product Search & Filtering**

The system allows users to easily find products by applying filters such as brand, category, and price range.

### **4. Wishlist Management**

Users can save their favorite products by adding them to a wishlist for future purchase.

### **5. Cart Management**

Users can add items to the cart, update quantities, review selections, and remove products before checkout.

### **6. Address Management**

Users can add, edit, and manage multiple delivery addresses used during checkout.

### **7. Order Placement & Checkout**

Users can place orders by selecting an address, reviewing their items, and choosing a preferred payment method.

### **8. Online & Offline Payment Options**

The system supports Razorpay for secure online payments and also provides a Cash on Delivery (COD) option for users who prefer offline payment.

## **9. Invoice & Receipt Generation**

Once the order is placed, users receive a digital bill receipt which they can download or view in their account.

## **10. Order Tracking**

Users can track their order status in real time through stages such as Pending, Packed, Shipped, and Delivered.

## **11. Profile & Account Management**

Users can update their personal information, manage saved addresses, and maintain account details.

## **12. Order History**

Users can view all previously placed orders along with their details, payment information, and invoice copies.

# **Admin Functionalities :**

## **1. Admin & Root Admin Login**

Admins and Root Admins can securely log in to access the admin dashboard and manage the system according to their assigned roles.

## **2. Root Admin Controls & Sub Admin Management**

The Root Admin has complete access to the system, including the ability to create Sub Admin accounts, assign permissions, and control which modules they can manage.

## **3. Product Management**

Admins can add new products, update details, upload images using Cloudinary, manage pricing and descriptions, and delete products when required.

## **4. Category & Brand Management**

Admins can create, edit, and delete product categories and brand names to maintain a well-structured and organized product catalog.

## **5. Order & Stock Management**

Admins can view all user orders, update order statuses (Pending, Packed, Shipped, Delivered), and manage stock levels to ensure product availability.

## **6. User Management**

Admins can view and manage user information, track user activities, and ensure proper handling of customer-related data.

## **7. Invoice & Billing Access**

Admins can view and download digital invoices for verification, records, and order tracking purposes.

## **8. Dashboard Overview**

Admins can monitor the overall performance of the platform through a dashboard displaying key metrics such as total orders, number of users, available products, and sales activity.

# Scope of the System

- Manages users, products, categories, orders, and cart details.
- Offers secure authentication and data protection.
- Automates stock management, billing, and order handling.
- Simplifies online shopping by offering a large variety of branded watches.
- Provides real-time order tracking for users.
- Supports complete purchase workflow from browsing to payment.

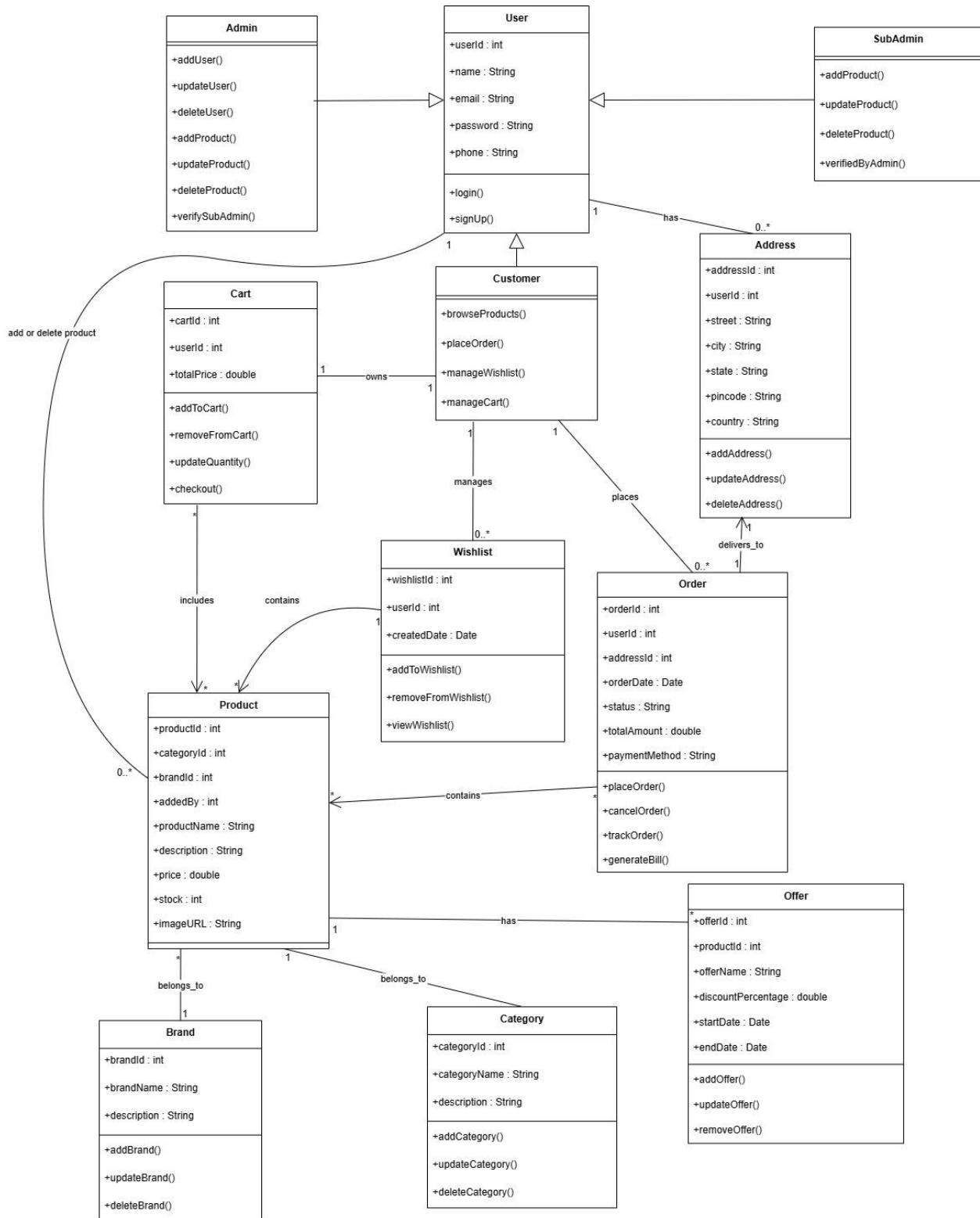
# Conclusion

The Luxchono Watches web application successfully delivers a convenient, secure, and modern e-commerce experience for users looking to purchase luxury watches online. It integrates essential features such as user authentication, product filtering, wishlist, cart, checkout, and online payment via Razorpay. The admin panel ensures efficient management of all system components including products, users, orders, and brands. Overall, the project provides a complete, functional, and scalable online shopping solution.

# Link

- GitHub Link : [Luxchono](#)
- Deployment Link :
  - Admin: <https://luxchono-admin.vercel.app/>
  - User: <https://luxchono-watch.vercel.app/>

# Class Diagram



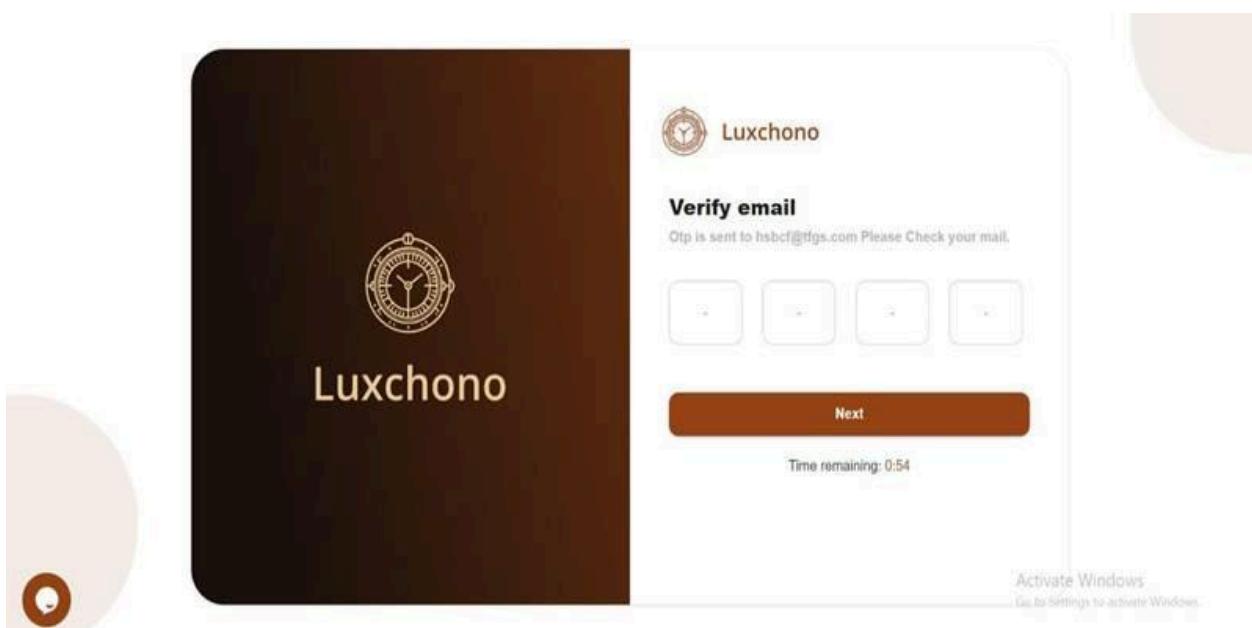
# ScreenShots

## User Side

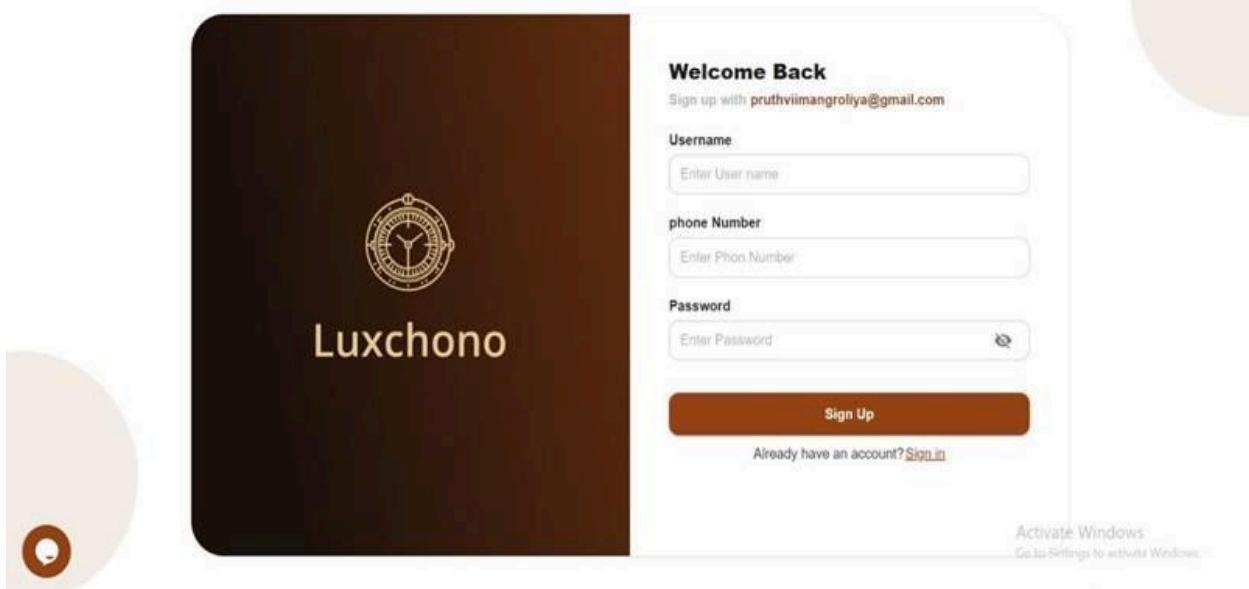
### User Email Verification



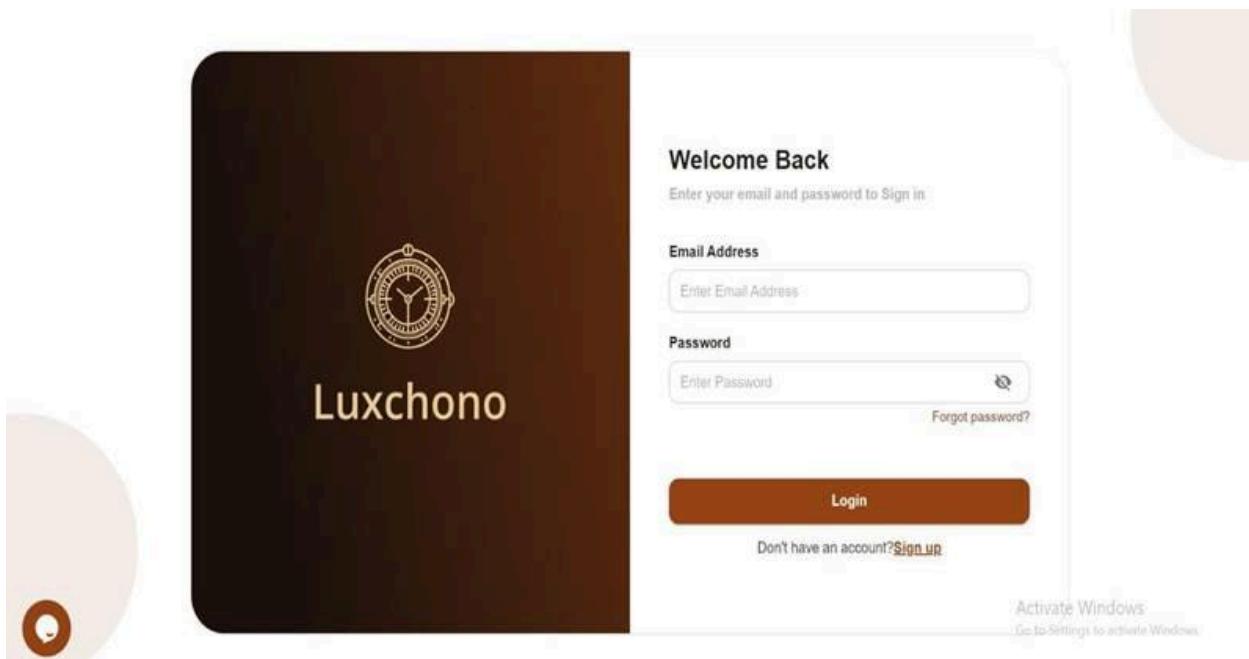
### User OTP Verification



## User Registration



## User Login

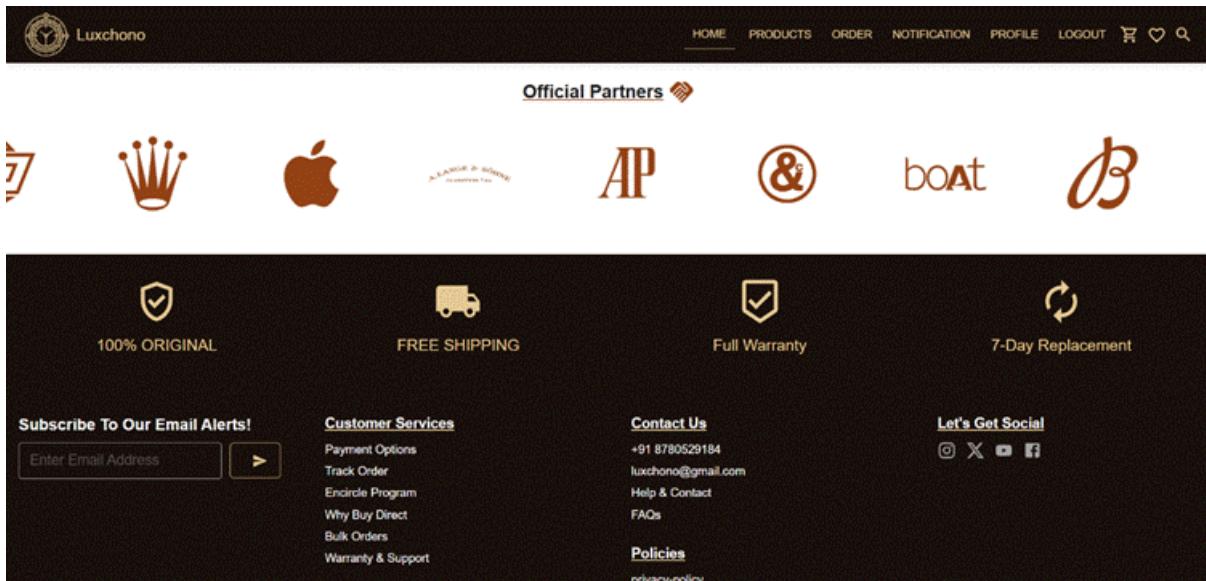


# Home Page

The image shows the homepage of Luxchono, an online watch store. At the top, there's a navigation bar with links for HOME, PRODUCTS, ORDER, NOTIFICATION, PROFILE, and LOGOUT, along with a search icon. The main banner features a large, square-shaped RADO watch with an open-heart dial, set against a dark background. Below the banner, the text "RADO SWITZERLAND" is displayed, followed by "True Square Automatic Open Heart". A "View All" button is located to the right of the banner. The page is divided into sections: "Popular Watches" and a grid of eight watch products. Each product card includes a small image of the watch, its price, a discount percentage, a rating (0.0 stars), and a brief description with the brand name.

Product	Price (₹)	Original Price (₹)	Discount (%)	Rating	Description
Men Watch Co-Axial Chronometer Brand's Omega	1,397 ₹	4,999 ₹	30% off	0.0	Men Watch Co-Axial Chronometer Brand's Omega
Female Watch H. Moser & Cie. Streamliner Brand's Bell & Ross	4,549 ₹	6,899 ₹	34% off	0.0	Female Watch H. Moser & Cie. Streamliner Brand's Bell & Ross
Men Watch Seven Friday Fashion Watch Brand's Seven Friday	3,000 ₹	6,000 ₹	50% off	0.0	Men Watch Seven Friday Fashion Watch Brand's Seven Friday
Female,All Watch iwatch Series 9 Brand's Apple	9,999 ₹	45,995 ₹	37% off	0.0	Female,All Watch iwatch Series 9 Brand's Apple
All Watch H. Moser & Cie. Streamliner Brand's Bell & Ross	4,549 ₹	6,899 ₹	34% off	0.0	All Watch H. Moser & Cie. Streamliner Brand's Bell & Ross
Couple Watch hamilton GHD Brand's Breitling	3,499 ₹	4,999 ₹	30% off	0.0	Couple Watch hamilton GHD Brand's Breitling
Kids Watch Silver Black 1858 Brand's Montblanc	5,200 ₹	6,999 ₹	25% off	0.0	Kids Watch Silver Black 1858 Brand's Montblanc
Men Watch CARRERA Brand's Tag Heuer	1,200 ₹	4,500 ₹	20% off	0.0	Men Watch CARRERA Brand's Tag Heuer

# Footer Page



The screenshot shows the footer section of the Luxchono website. At the top, there's a navigation bar with links for HOME, PRODUCTS, ORDER, NOTIFICATION, PROFILE, LOGOUT, and search icons. Below the navigation is a section titled "Official Partners" featuring logos for various brands: Luxchono, Apple, AP, & boAt. The main footer area has four service icons: "100% ORIGINAL" (shield icon), "FREE SHIPPING" (truck icon), "Full Warranty" (checkmark icon), and "7-Day Replacement" (refresh icon). To the left, there's a "Subscribe To Our Email Alerts!" form with an input field and a submit button. To the right, there are sections for "Customer Services" (Payment Options, Track Order, Encircle Program, Why Buy Direct, Bulk Orders, Warranty & Support), "Contact Us" (phone number +91 8780529184, email luxchono@gmail.com, Help & Contact, FAQs), and "Policies" (privacy-policy link). On the far right, there's a "Let's Get Social" section with social media icons for Twitter, YouTube, and Facebook.

# Product Page



Luxchono

HOME PRODUCTS ORDER NOTIFICATION PROFILE LOGOUT

Search 

 Filter By



3,199 ₹ 3,999 ₹  
20% off ★ 0.0  
Men Watch  
**A. lange & Sohne Odysseus 363.179**  
Brand's **A. lange**



9,999 ₹ 14,999 ₹  
37% off ★ 0.0  
Female All Watch  
**iwatch Series 9**  
Brand's **Apple**



4,549 ₹ 6,899 ₹  
34% off ★ 0.0  
Female Watch  
**H. Moser & Cie. Streamliner**  
Brand's **Bell & Ross**



3,499 ₹ 4,999 ₹  
30% off ★ 0.0  
Couple Watch  
**hamilton GHD**  
Brand's **Breitling**



5,999 ₹ 11,000 ₹  
50% off ★ 0.0  
Men Watch  
**ALPINE EAGLE**  
Brand's **Chopard**



7,891 ₹ 8,960 ₹  
11% off ★ 0.0  
Men Watch  
**Big Pilot's Watch 43**  
Brand's **IWC**



4,549 ₹ 6,899 ₹  
34% off ★ 0.0  
All Watch  
**H. Moser & Cie. Streamliner**  
Brand's **Bell & Ross**



3,000 ₹ 6,000 ₹  
50% off ★ 0.0  
Men Watch  
**Seven Friday Fashion Watch**  
Brand's **Seven Friday**



5,200 ₹ 6,999 ₹  
25% off ★ 0.0  
Kids Watch  
**Silver Black 1858**  
Brand's **Montblanc**



8,799 ₹ 10,899 ₹  
19% off ★ 0.0  
Couple Watch  
**BALANCE WHEEL OPENWORKED**  
Brand's **Audemars piguet**



1,200 ₹ 4,500 ₹  
20% off ★ 0.0  
Men Watch  
**CARRERA**  
Brand's **Tag Heuer**



1,397 ₹ 4,999 ₹  
30% off ★ 0.0  
Men Watch  
**Co Axial Chronometer**  
Brand's **Omega**

## Product Filter

Search

Filter By

Category

Men Female Couple All

Price Range

Start price ₹ 0 End price ₹ 10000

Brand

Apple A. lange Audemars piguet  
Bell & Ross Boat Breitling  
Cartier Chopard Hublot  
IWC Jaeger-LeCoultre Longines  
Montblanc Rado Seven Friday

Reset Apply

## Product Detail

HOME PRODUCTS ORDER NOTIFICATION PROFILE LOGOUT

A. lange & Söhne Odysseus 363.179

Men Watch

This stainless steel A. Lange & Söhne Odysseus Ref. 363.179 marks an interesting departure from the brand's classic style into the world of sportswatches. The piece is distinguished by the combination of a deep blue dial and steel case, in addition to the integrated bracelet and new movement, the L.155.1 Datomatic, created especially for the piece. The Rebirth of A. Lange & Söhne. The name Lange has been tied to watchmaking and the Saxony area of Germany for centuries.

★★★★★ 0.0

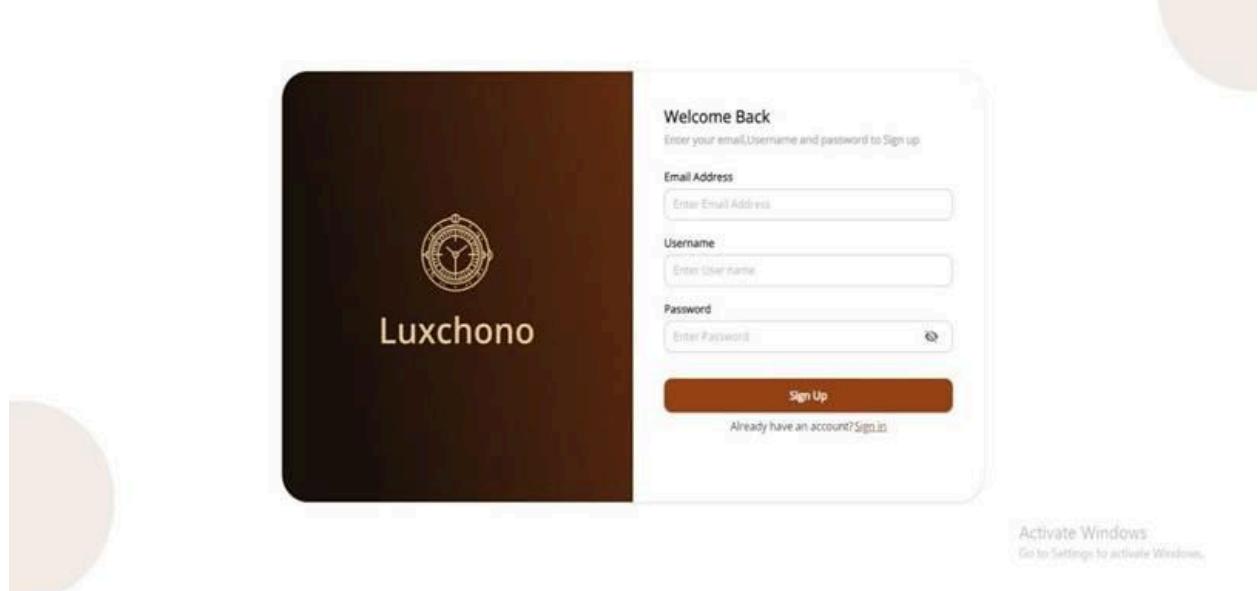
3,199 ₹ 3,999 ₹ 20% off  
Inclusive of all taxes

A. lange 2  
delivered next 7 days

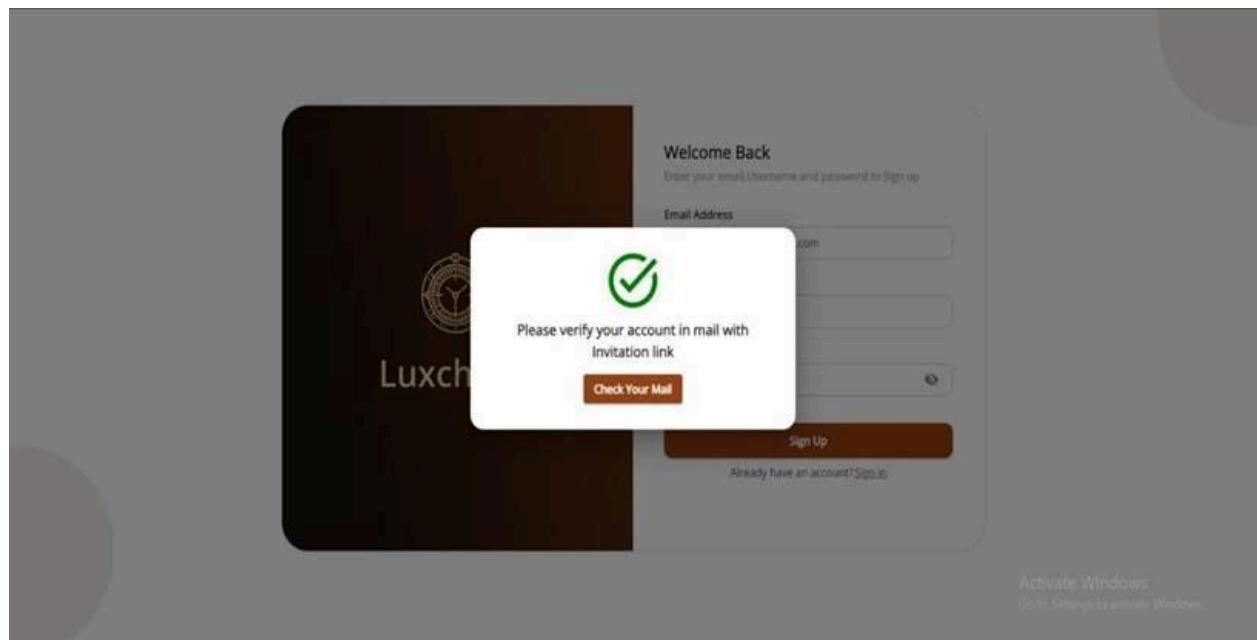
Add To Cart

## Admin Side

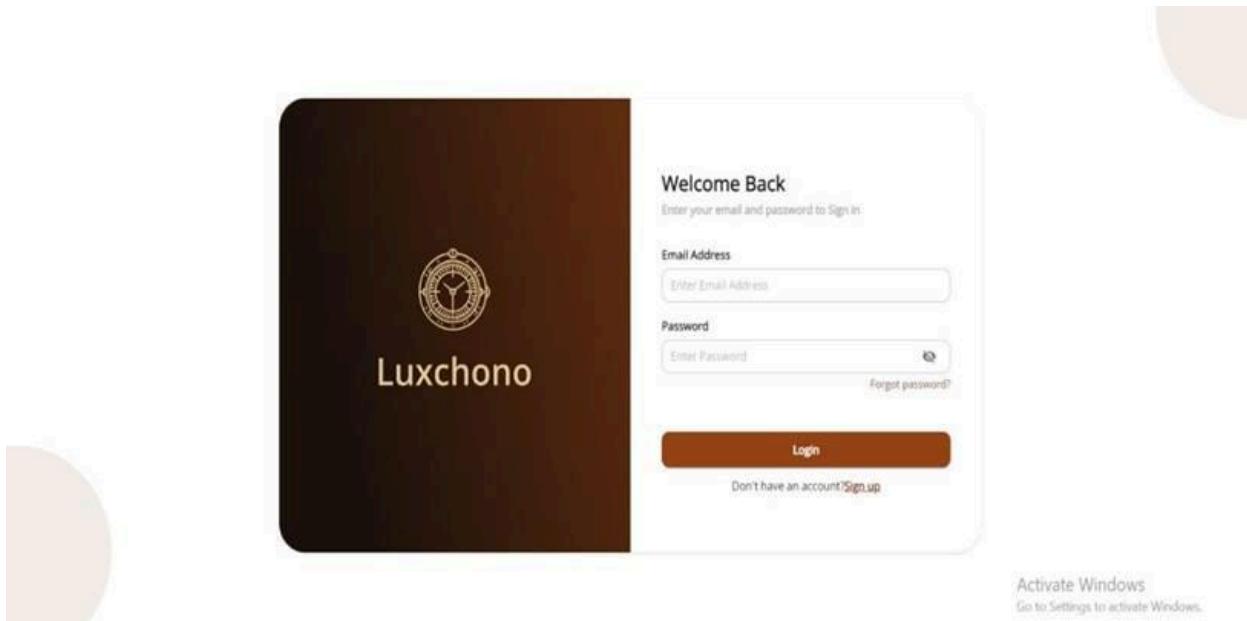
### Admin Registration



### Email verification



## Admin Login



## Product Module

The screenshot displays the Luxchono Product Module dashboard. The left sidebar includes links for Dashboard, Product (selected), Order, Category, Brand, Customer, Profile, and Logout. The main content area is titled "Product" and shows a grid of product details. At the top of the grid are buttons for "Export" (with "(12) Product Available" text), "Add Product", and a search bar labeled "Search Product". The grid columns are: PRODUCT NAME, CATEGORY, BRAND, PRICE, STOCK, MODEL, WARRANTY, and DUMMY PRICE. Each row represents a product with an edit icon (pencil) and a delete icon (trash bin). The products listed are:

PRODUCT NAME	CATEGORY	BRAND	PRICE	STOCK	MODEL	WARRANTY	DUMMY PRICE
A. Lange & Söhne Odysseus 363.179 ✓	Men	A. lange	3,199 €	2	Söhne Odysseus 363.179	2	3,999 €
iwatch Series 9 ✓	Female - All	Apple	9,999 €	34	iwatch Series 9	2 years	15,995 €
H. Moser & Cie. Streamliner ✓	Female	Bell & Ross	4,549 €	10	H. Moser & Cie. Streamliner	10 months	6,899 €
hamilton GHD ✓	Couple	Breitling	3,499 €	7	hamilton GHD	8 months	4,999 €
ALPINE EAGLE ✓	Men	Chopard	5,999 €	92	ALPINE EAGLE	2 years	11,999 €
Big Pilot's Watch 43 ✓	Men	IWC	7,891 €	12	Big Pilot's Watch 43	3 years	8,960 €
H. Moser & Cie. Streamliner ✓	All	Bell & Ross	4,549 €	49	H. Moser & Cie. Streamliner	10 months	6,899 €
Seven Friday Fashion Watch ✓	Men	Seven Friday	3,000 €	37	Seven Friday Fashion Watch	3 years	6,000 €
Silver Black 1858 ✓	Kids	Montblanc	5,200 €	5	Silver Black 1858	5 years	6,999 €
BALANCE WHEEL OPENWORKED ✓	Couple	Audemars piguet	8,799 €	5	BALANCE WHEEL OPENWORKED	18 months	10,899 €

## Order Module

The screenshot shows the Luxchono Order Module. The left sidebar includes links for Dashboard, Product, Order (which is selected), Category, Brand, Customer, and Profile. The main area is titled 'Order' and displays a table with two rows of order data. The columns are ORDER ID, EMAIL, CREATE ON, PAYMENTAMOUNT, and STATUS. The first order has an ORDER ID of #0d7f2589, EMAIL of hardikabhesara@gmail.com, created on Mar 11, 2025 at 07:11 PM, a payment amount of 3,199 ₹, and a status of Completed. The second order has an ORDER ID of #db8332e7, EMAIL of hardikabhesara@gmail.com, created on Mar 11, 2025 at 12:15 PM, a payment amount of 13,498 ₹, and a status of Out Of Delivery. Buttons for Export and Logout are visible.

ORDER ID	EMAIL	CREATE ON	PAYMENTAMOUNT	STATUS
#0d7f2589	hardikabhesara@gmail.com	Mar 11, 2025 at 07:11 PM	3,199 ₹	Completed
#db8332e7	hardikabhesara@gmail.com	Mar 11, 2025 at 12:15 PM	13,498 ₹	Out Of Delivery

## Category Module

The screenshot shows the Luxchono Category Module. The left sidebar includes links for Dashboard, Product, Order, Category (which is selected), Brand, Customer, and Profile. The main area is titled 'Category' and displays a table with five rows of category data. The columns are CATEGORY NAME and actions. The categories listed are Men, Female, Kids, Couple, and All. A button for Add Category is present. Buttons for Export and Logout are visible.

CATEGORY NAME	
Men	/ ⚙
Female	/ ⚙
Kids	/ ⚙
Couple	/ ⚙
All	/ ⚙

## Brand Module

The screenshot shows the 'Brand' module of the Luxchono application. The left sidebar includes links for Dashboard, Product, Order, Category, Brand (which is highlighted), Customer, and Profile. A 'Logout' button is at the bottom. The main area has a header with 'Brand', an 'Export' button, a status message '(19) Brand Available', and a 'Add Brand' button. It features a search bar labeled 'Search Brand' with a magnifying glass icon. Below is a table with columns for 'BRAND NAME' and actions (edit and delete). The data includes:

BRAND NAME	Action	Action
Apple		
A. lange		
Audemars piguet		
Bell & Ross		
Boat		
Breitling		
Cartier		
Chopard		
Hublot		
IWC		

## Admin Profile

The screenshot shows the 'Profile' section of the Luxchono application. The left sidebar includes links for Dashboard, Product, Order, Category, Brand, Customer, and Profile (which is highlighted). A 'Logout' button is at the bottom. The main area has a header with 'Profile', a user icon, and the name 'hardika'. On the left, there's a vertical menu with 'DETAILS' and 'CHANGE PASSWORD' sections. The 'CHANGE PASSWORD' section contains fields for 'Current Password' (with placeholder 'Enter Password') and 'New Password' (with placeholder 'Enter New Password'), along with a 'Change Password' button.

## Add Product Module

The screenshot shows the 'Add Product' page within the Luxchono application. The left sidebar contains navigation links for Dashboard, Product (selected), Order, Category, Brand, Customer, and Profile. A 'Logout' button is also present. The main content area is titled 'Add Product' and includes fields for 'Image' (with a placeholder cloud icon) and 'Thumbnail' (with a placeholder cloud icon). Below these are dropdowns for 'Category' and 'Brand'. Input fields for 'Name', 'Model', and 'Description' are provided, along with a rich text editor. Fields for 'Stock', 'Price', 'Dummy Price', and 'Warranty' are also present. An 'Active' toggle switch is at the bottom. A 'Save' button is located in the top right corner.

Product

Add Product

Image :-

Thumbnail :-

Category :-

Select Category

Brand :-

Select Brand

Name :-

Enter Product Name

Model :-

Enter Product Model

Description :-

Enter Product Description

Stock :-

Enter Product Stock

Price :-

Enter Product Price

Dummy Price :-

Enter Product Dummy Price

Warranty :-

Enter Product Warranty

Active :-

Save