

CHRONO-E-COMMERCE DOCUMENTATION

Project Name: Chrono-E-Commerce.

Type: E-Commerce.

Created by: Arsalaan Sairab

Tech: React-ESLint.

Paid/Free: Free.

Description:

The Chrono-E-Commerce is a web-application created by using technologies like React and ESLint. The webapp has a good UI with good accessibility and easy interface. The app is available in two themes white and dark, users can switch according to their wish. Users can browse products can also add them to cart and finally place their order.

The app usually helps different types of people to showcase their products and advertise them across the internet without paying anything. Just add the products and send the link to the people who wants to check your products and that's it. Users can also make it their shop website as it sells their products and advertise them.

There are different types of pages which serves different products like electronics, grocery and clothes etc. The users can add their products accordingly and can also remove the page which doesn't match their product.

The webapp contains the following pages:

- | | | |
|--------------------------------|----------------------------|---------------------|
| 1) Home page (landing page). | 2) smart watches/ mobiles. | 3) Grocery. |
| 4) About page. | 5) Cart page. | 6) Admin dashboard. |

We will see what each page does, serve and what it's functionality.

1) Home Page:

What it Does:

The Home page is the landing and main entry point to the e-commerce application. It displays featured products, highlights key product categories through banner sections, and calls users to browse different product categories. It's designed in a way to give users an idea about the webapp.

Key Features:

A. Hero Section

A promoted banner on top with striking imagery, along with call-to-action buttons

Built using the Hero component from src/components/Hero.js

Grabs the immediate user attention on landing onto the site.

B. Section of Features Products

Product listing- displays 6 handpicked products from the entire product catalog (first 6 items)

Uses the ProductList component to render product cards in a grid layout

Includes a "View All Products" button that routes to /products

Each product card depicts the following: an image, the name of an item, price in INR ₹, rating using stars, a quick description, and an "Add to Cart" button.

C. Category Banner Sections:

Smart Watches & Wearables - Covers activity trackers, smartbands, and smartwatches.

Image: Professional photo of smartwatches

Description: "Come and explore our unique collection of smartwatches and fitness trackers. From classy smartwatches to pro fitness trackers, choose the perfect wearable to best suit your lifestyle.

Button: "Explore smart-watches" → links to /category/smart-watches

Latest Smartphones - Features premium and budget smartphones.

Image: A collection of modern smartphones

Description: Inscribed with state-of-the-art displays, powerful processors, and cameras that boast of updated capabilities.

Button: "Explore smart-mobiles" → /category/smart-mobiles

Premium Laptops & Computing - Features high-performance laptops.

Image: Professional laptops in action

Description: Discover a range of power-packed laptops and computing devices that cater to all needs.

Fresh Grocery & Essentials: Comprises of daily needs.

Image: Fruits and other groceries

Description: "Shop fresh groceries and everyday essentials delivered right to your door."

Each banner uses alternating layouts - for visual variety (reverse=true/false).

D. Section for Testimonials/Reviews.

Displays customer ratings and reviews

It is building trust through social proof.

E. Newsletter Subscription Section.

Email input field for newsletter signup

"Subscribe Now" button to capture information about the user.

Encourages users to stay up-to-date with offers and announcements.

How It's Made:

Technology Stack:

- Built with React using functional components and hooks
- Material-UI for UI components (Container, Box, Grid, Typography, Button)
- Framer Motion for smooth animations
- React Router for links to navigate
- styled-components for custom styling
- Key Code Structure:

Details of animation:

- Uses motion.div components with initial/animate/whileInView attributes
- Fade-in animations on scroll using whileInView
- Products animate with opacity and y-position changes
- The text elements are staggered with delays for an elegant effect.
- Scale animations on category banners

PREMIUM SELECTION

Your One-Stop E-Commerce Destination

Discover a wide range of products from smart watches and mobiles to laptops and groceries. Shop with confidence at CHRONO E-COMMERCE.

Shop Now

Browse Categories

500+
Products10k+
Happy Customers4.9
Star Rating

SMART-WATCHES

Smart Watches & Wearables

Discover our exclusive collection of smart watches and fitness trackers. From elegant smartwatches to advanced fitness trackers, find the perfect wearable to match your lifestyle. Each device is designed with cutting-edge technology and premium quality.

Explore smart-watches



Our Products

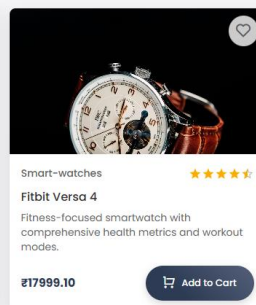
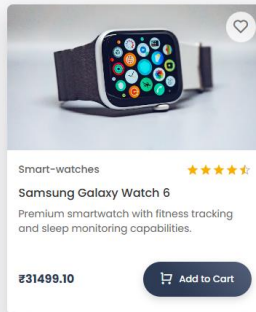
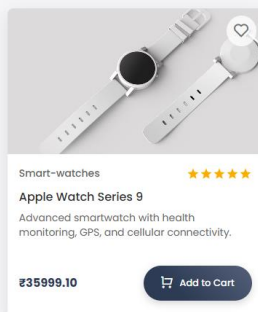
Explore our collection of premium products.

Search products...

Sort By

Featured

Showing 6 products



2. DIFFERENT PRODUCT CATEGORY PAGES

What it does:

Category pages help users find products easily by showing items grouped under a specific category.

Each category has its own page with related products only.

These pages help users quickly reach the products they want without searching the full store.

Product List Section

- Shows all products of the selected category
- Products are fetched using `getProductsByCategory(category)`
- Products are shown in a grid card layout
- Each product card shows:
 - Product image
 - Name
 - Price
 - Rating
 - Short description
 - **Add to Cart** button

Product Filtering Process (Important)

1. The user selects a category (for example: Electronics).
 2. This function first collects all products that belong to the selected category.
 3. After category filtering, the user can apply **sorting options**:
 - Price: Low to High
 - Price: High to Low
 - Highest Rated Products
 - Product Name (A to Z)
 4. The selected sorting option rearranges the already filtered product list.
 5. The updated and sorted products are returned to the page.
 6. The page displays products based on the selected category and sorting option.
- This process ensures fast loading, accurate results, and a better shopping experience.

How Each Filter Works.

❖ Price: **Low to High**

Products are arranged from cheapest to most expensive, helping users find budget-friendly items first.

❖ Price: **High to Low**

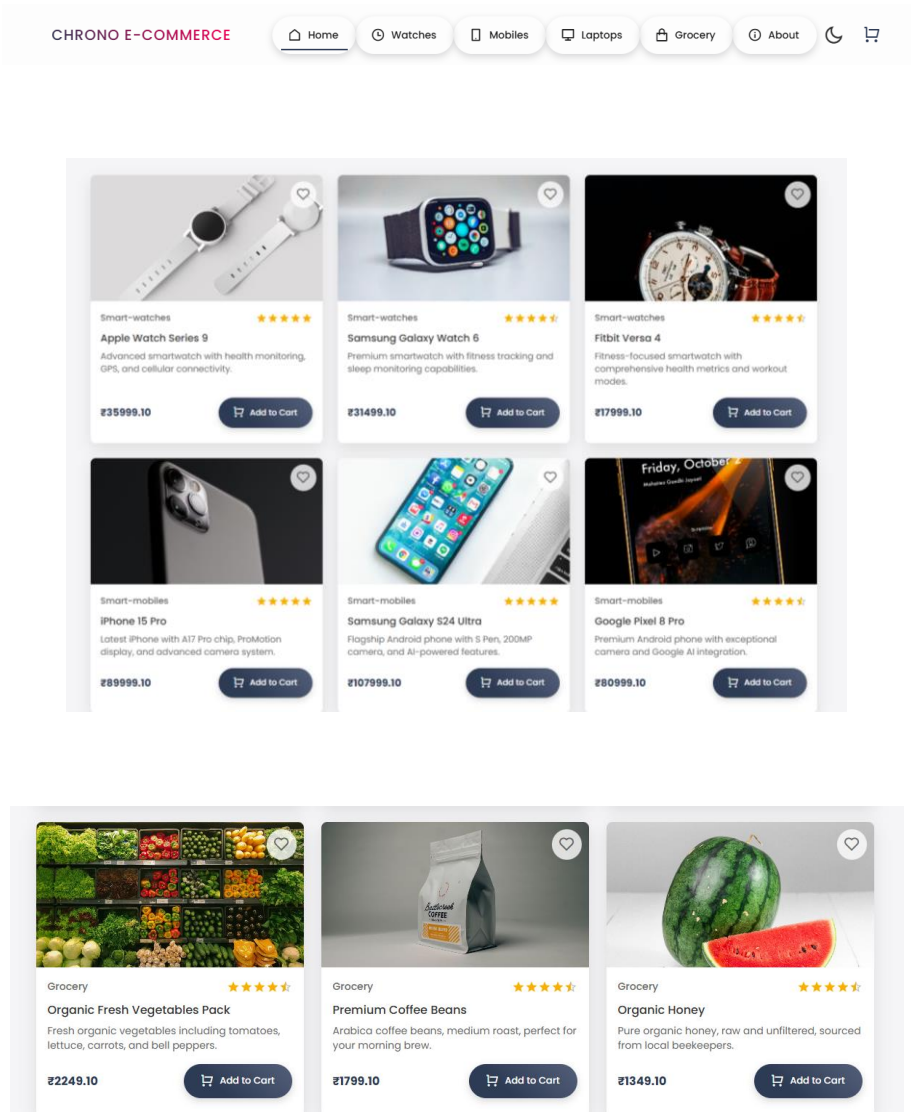
Products are arranged from most expensive to cheapest, useful for users looking for premium items.

❖ **Highest Rated**

Products are sorted based on customer ratings, showing the best-reviewed products at the top.

❖ **Name (A to Z)**

Products are sorted alphabetically by name, making it easy to find items quickly.



3. ADMIN LOGIN PAGE (/admin/login)

What it Does:

The AdminLogin page is an authentication gateway that securely authenticates administrators to an admin panel where they can add, edit, and delete products. It follows the structure of a professional login interface, like credentials verification, which has to be filled out by a user; session control is performed based on that.

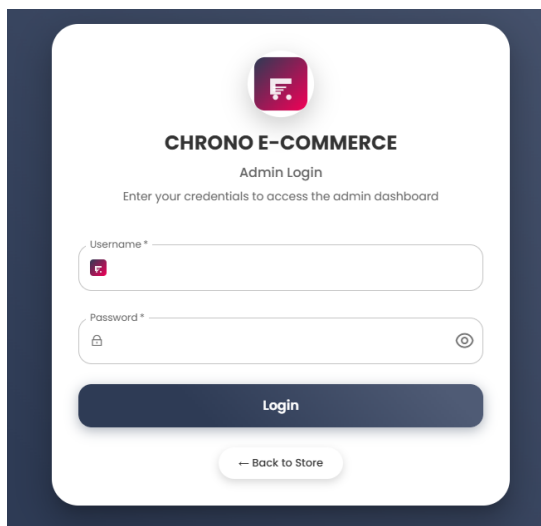
Authentication:

- Only verified users can login to it.
- Any other user not listed in the app will see an error message that indicates the credentials are invalid.

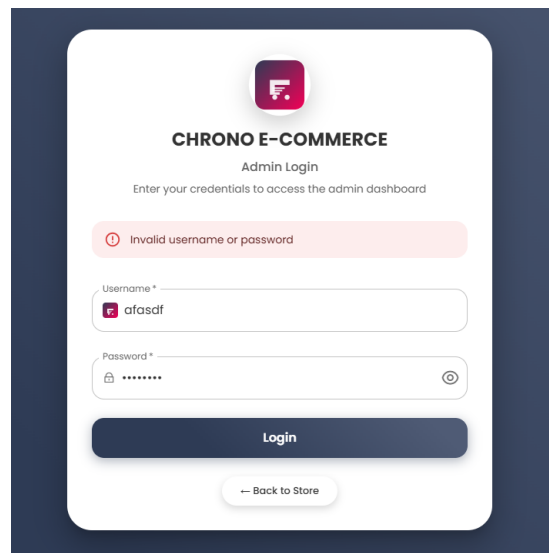
Authentication Logic:

Security Implementation:

- Credentials stored in component state (simplified way for demo)
- Persists authentication session by using localStorage.
- Admin Dashboard checks adminAuthenticated flag on mount
- If not authenticated, redirects back to the login page.



The image shows the Admin Login form for Chrono E-commerce. It features a dark blue header with the Chrono E-commerce logo and the text "Admin Login". Below the header, there is a prompt "Enter your credentials to access the admin dashboard". The form consists of two input fields: "Username *" and "Password *". The "Username *" field has a small icon of a person and the text "afasdf". The "Password *" field has a small icon of a lock and a toggle button. Below the input fields is a large blue "Login" button. At the bottom, there is a "Back to Store" button.



The image shows the Admin Login form for Chrono E-commerce with an error message. It features a dark blue header with the Chrono E-commerce logo and the text "Admin Login". Below the header, there is a prompt "Enter your credentials to access the admin dashboard". A red error message "Invalid username or password" is displayed above the input fields. The form consists of two input fields: "Username *" and "Password *". The "Username *" field has a small icon of a person and the text "afasdf". The "Password *" field has a small icon of a lock and a toggle button. Below the input fields is a large blue "Login" button. At the bottom, there is a "Back to Store" button.

4. ADMIN DASHBOARD PAGE (/admin/dashboard)

What it Does:

The AdminDashboard is where control is effected by an administrator. It provides a full interface for managing the inventory of products, thus allowing admins to add new products, view all dynamically added products, delete products, and manage product features. It's a full CRUD interface built with extensive form validation and real-time feedback.

Key Features:

- Authentication Check : On mount, checks if adminAuthenticated flag exists in localStorage
Automatically redirects to /admin/login if not authenticated.
- Add products and delete products.
- The added product would automatically showcased in the respective category page it was added.
- Add Product Form Section With full form fields:

❖ Product Name Input:

- Required field
- Validating: Should not be empty.

❖ Price Input:

- Decimal accepting number field
- Required field
- Validation: Must be a valid number > 0
- Displays prices in INR (₹)

❖ Product Image URL:

- Required field
- Validation: The URL format must be valid.
- Preview support in the list view

❖ Product Description:

- Multi-line text field.
- Required field
- Allows for detail about product description.
- Validating: Cannot be blank

❖ Category Dropdown:

- Select menu with pre-defined categories:
- Smart Watches
- Mobile Smart Phones
- Laptops
- Grocery
- Required field


❖ Rating Input:

- Number field with min/max validation
- Range: 0 to 5 (with decimals, such as 4.5)
- Default value: 4.0
- Validations: Must be between 0-5

❖ Features Management:

- Text input to add features individually
- "Add Feature" button that adds to features array
- Each feature is displayed as a removable Chip component.

CHRONO E-COMMERCE



CHRONO E-COMMERCE
Admin Dashboard
Manage your products

Logout

Add New Product

Product Name *

Category *

Price *

Image URL *

Description *

Rating

4.0

Rating from 0 to 5


Features

Add a feature


In Stock

+ Add Product

Added Products (2)

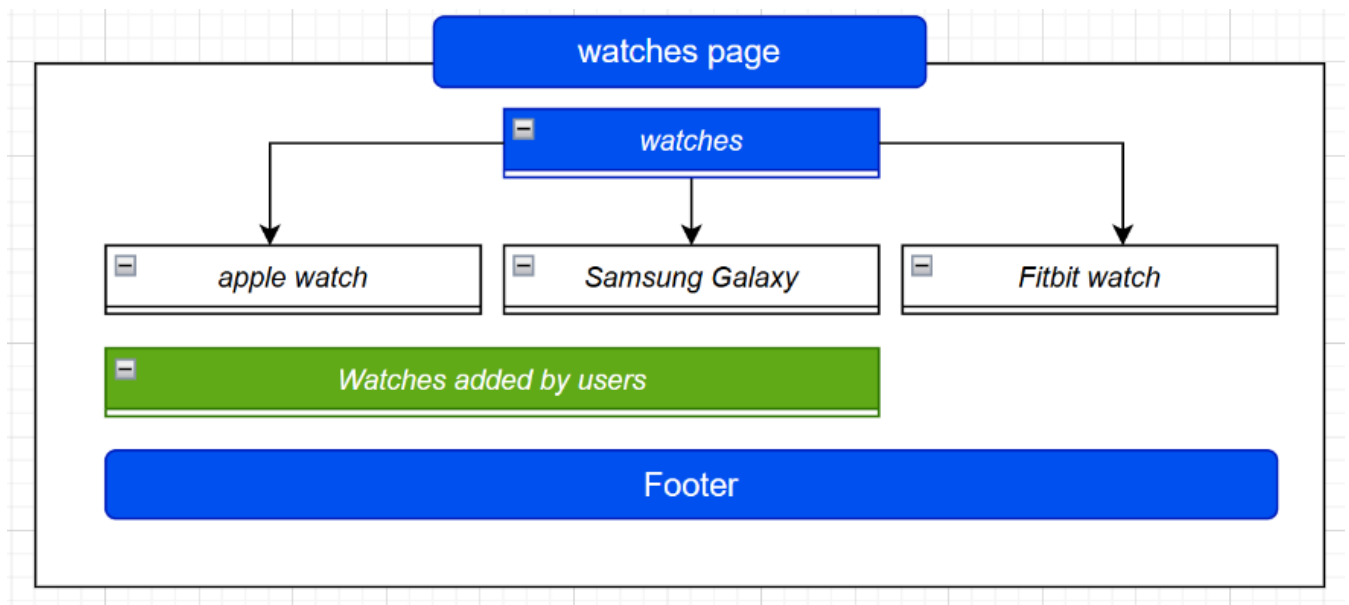
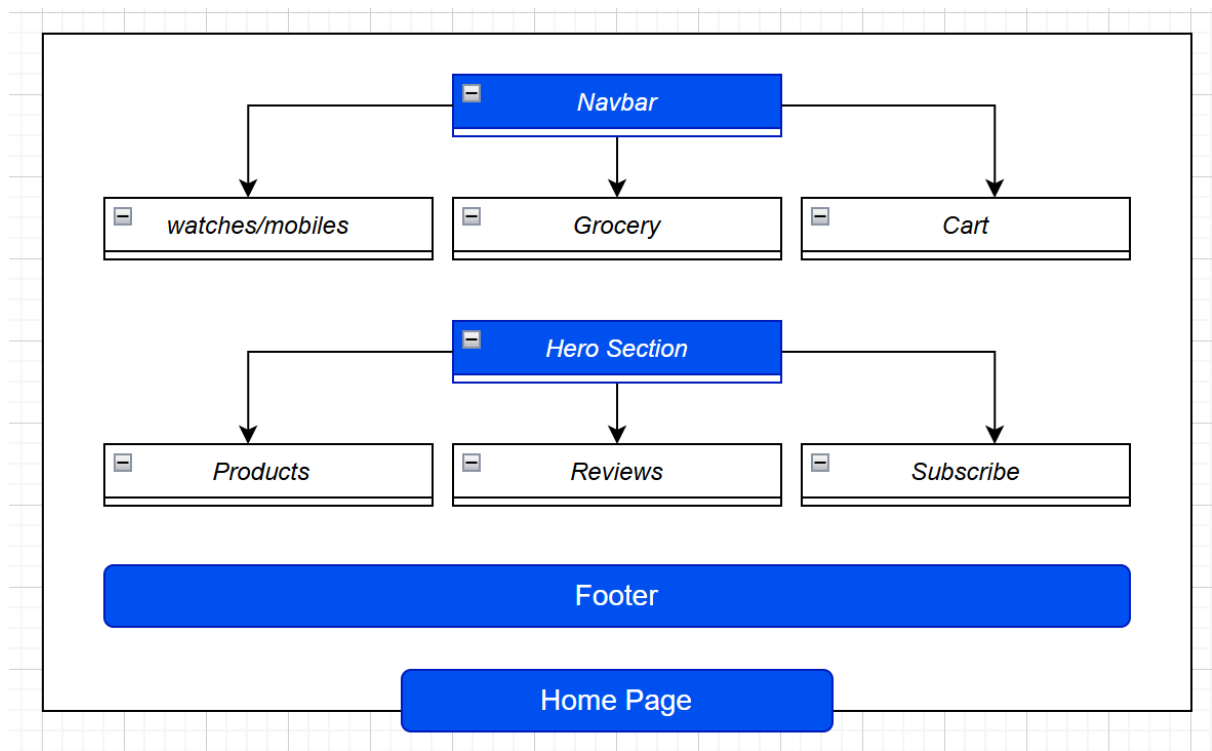


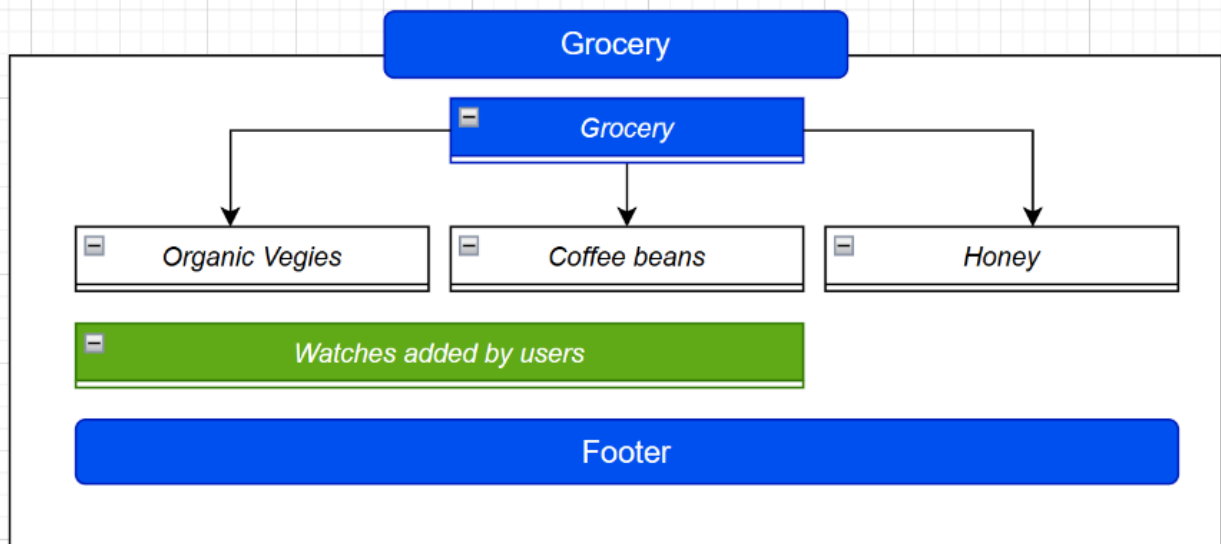
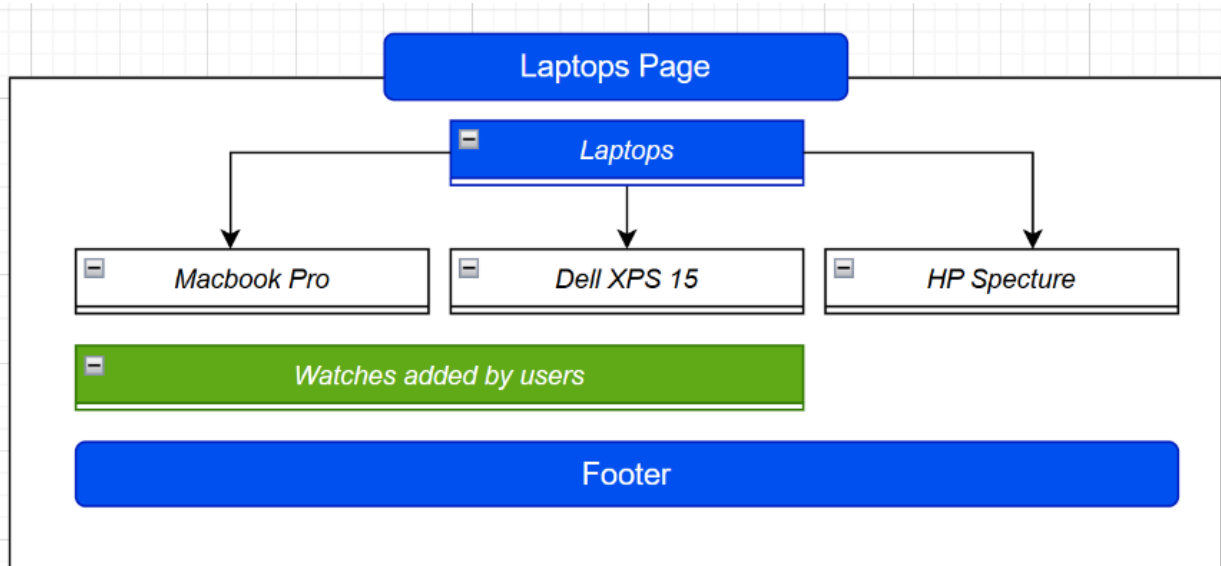
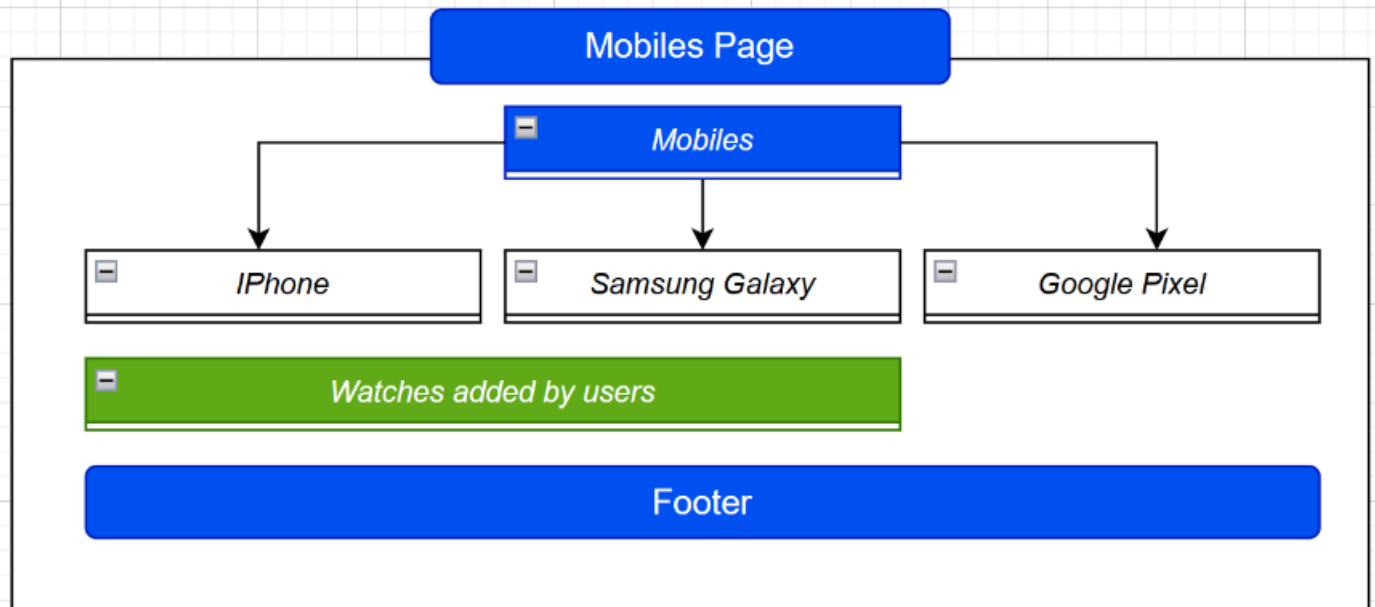
Asus laptop 1
computer
₹5.99



milk
grocery
₹999.00

Diagrammatic presentation of the proposed project





About Page

About App

Story

Purpose

services

reviews

Values

Ready to shop

Footer

