

Spargen Case Study: Dynamic E-Commerce Website Challenge (2025)

About Spargen

Spargen is a forward-thinking product and service-based software company specializing in web development, digital marketing, data analytics, and innovative tech solutions. As part of our commitment to nurturing next-generation talent, we are launching this challenge to identify and mentor skilled developers and designers.

Challenge Overview

You have been shortlisted to participate in Spargen's Dynamic E-Commerce Website Challenge, a test of your ability to create a robust, user-friendly e-commerce platform that aligns with 2025 UI/UX standards. You'll build a complete, responsive application with real-world business logic based on a category assigned uniquely to you.

Objective

To evaluate your proficiency in:

- Designing and implementing a dynamic, scalable e-commerce website
- Applying current and future-proof UI/UX principles
- Managing user authentication, product flow, cart system, and admin panel
- Delivering business-specific functionality tailored to your category

Assigned Business Category

Your business theme is determined by the first letter of your first name:

A - Apparel (Clothing)

B - Books

C - Cosmetics

D - Digital Gadgets

E - Electronics

F - Footwear

G - Groceries

H - Home Decor

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I - Ice Cream & Desserts

J - Jewelry

K - Kitchen Appliances

L - Laptops & Accessories

M - Mobiles & Tablets

N - Nutrition & Health

O - Organic Food

P - Pet Supplies

Q - Quick Meals (Ready-to-eat)

R - Ride Gear & Auto Accessories

S - Stationery & Office Supplies

T - Toys & Games

U - Underwear & Loungewear

V - Vegetables & Fruits

W - Watches

X - Xtreme Sports Gear

Y - Yoga Products

Z - Zip Wearables (Smartwear)

Expected Features

Functional Requirements:

- Dynamic product listing with filtering
- Product details with image gallery
- Cart and wishlist functionality
- User login/signup
- Checkout process with dummy payment flow
- Admin panel (CRUD for products)

UI/UX (2025 Standards):

- Fully responsive across all devices
- Light/Dark mode support

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- Neumorphic or minimal aesthetic
- Voice-enabled search or support
- Micro-interactions (hover, transitions)
- Skeleton loaders and lazy loading
- Accessibility compliance (WCAG 2.2)

Evaluation Criteria

UI/UX & Accessibility - 25%

Functionality & Flow - 30%

Code Quality - 20%

Creativity & Innovation - 15%

Documentation & Demo - 10%