<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>NextGen Mobile Shop - Catalogue</title>

<!-- Load Tailwind CSS -->

<script src="https://cdn.tailwindcss.com"></script>

<!-- Load Lucide Icons -->

<script src="https://unpkg.com/lucide@latest/dist/umd/lucide.js"></script>

<link href="https://fonts.googleapis.com/css2?family=Inter:wght@400;600;700&display=swap" rel="stylesheet">

<style>

body {

font-family: 'Inter', sans-serif;

/\* Using a very light off-white background for subtle texture \*/

background-color: #fcfcfd;

}

/\* Custom scrollbar for aesthetic purposes \*/

::-webkit-scrollbar {

width: 8px;

}

::-webkit-scrollbar-thumb {

background: #a78bfa; /\* purple-400 \*/

border-radius: 10px;

}

.product-card {

transition: transform 0.2s, box-shadow 0.2s;

}

.product-card:hover {

transform: translateY(-5px);

box-shadow: 0 15px 25px -5px rgba(109, 40, 217, 0.2), 0 4px 6px -2px rgba(0, 0, 0, 0.05); /\* Enhanced shadow with purple tint \*/

}

.modal-overlay {

background-color: rgba(0, 0, 0, 0.75);

backdrop-filter: blur(5px); /\* Added subtle blur for focus \*/

}

/\* Spinning animation for loader \*/

@keyframes spin {

0% { transform: rotate(0deg); }

100% { transform: rotate(360deg); }

}

.spinner {

border: 4px solid rgba(255, 255, 255, 0.3);

border-top: 4px solid #fff;

border-radius: 50%;

width: 30px;

height: 30px;

animation: spin 1s linear infinite;

}

/\* Custom slow pulse animation for hero element \*/

@keyframes pulse-slow {

0%, 100% { transform: scale(1); opacity: 0.9; }

50% { transform: scale(1.05); opacity: 1; }

}

.animate-pulse-slow {

animation: pulse-slow 4s infinite ease-in-out;

}

</style>

</head>

<body class="antialiased text-gray-800">

<!-- Header & Navigation -->

<header class="bg-white shadow-lg sticky top-0 z-50">

<div class="max-w-7xl mx-auto px-4 sm:px-6 lg:px-8 py-4 flex justify-between items-center">

<!-- Logo -->

<a href="#" class="flex items-center space-x-2 text-2xl font-bold text-indigo-600">

<i data-lucide="smartphone" class="w-6 h-6"></i>

<span>NextGen Mobiles Catalogue</span>

</a>

<!-- Navigation Links (Hidden on Mobile, Visible on Desktop) -->

<nav class="hidden md:flex space-x-6 text-gray-600 font-medium">

<a href="#" class="hover:text-indigo-600 transition duration-150">Home</a>

<a href="#" class="hover:text-indigo-600 transition duration-150">Catalogue</a>

<a href="#" class="hover:text-indigo-600 transition duration-150">About Us</a>

<a href="#" class="hover:text-indigo-600 transition duration-150">Contact</a>

</nav>

<!-- Actions (Simplified - only user profile remains) -->

<div class="flex items-center space-x-4">

<button class="p-2 rounded-full bg-gray-100 text-gray-600 hover:bg-gray-200 transition duration-150">

<i data-lucide="user" class="w-5 h-5"></i>

</button>

</div>

</div>

</header>

<main class="max-w-7xl mx-auto px-4 sm:px-6 lg:px-8 pt-10 pb-20">

<!-- Hero Section / Banner - Updated with a Gradient Background -->

<section class="bg-gradient-to-r from-indigo-700 to-purple-600 text-white rounded-xl p-8 md:p-16 mb-12 shadow-2xl overflow-hidden relative flex flex-col md:flex-row items-center justify-between">

<div class="max-w-xl mb-8 md:mb-0 relative z-10">

<!-- NEW H1 -->

<h1 class="text-4xl md:text-5xl font-extrabold mb-4 leading-tight">

The Future is Mobile: Next-Gen Devices in BDT

</h1>

<!-- NEW P -->

<p class="text-indigo-200 text-lg mb-6">

Explore a curated selection of flagship and budget smartphones from top global brands like Apple, Samsung, Vivo, and Tecno. Use our real-time filters to find your perfect phone at the right price.

</p>

<!-- Updated Button Color -->

<button class="bg-white text-purple-600 font-bold py-3 px-6 rounded-full hover:bg-gray-100/90 transition duration-300 shadow-lg flex items-center space-x-2">

<i data-lucide="search" class="w-5 h-5"></i>

<span>Browse Full Specs</span>

</button>

</div>

<!-- Dynamic, Pulsing Background Visual (More Attractive) -->

<div class="w-48 h-48 md:w-64 md:h-64 bg-purple-500/30 backdrop-blur-sm rounded-full flex items-center justify-center shadow-2xl border-4 border-white/50 animate-pulse-slow relative z-0">

<i data-lucide="zap" class="w-28 h-28 text-white"></i>

</div>

</section>

<!-- --- Price & Brand Filter Section --- -->

<section class="mb-10 bg-white p-6 rounded-xl shadow-md border border-gray-100">

<h3 class="text-xl font-bold text-gray-800 mb-4 flex items-center space-x-2">

<i data-lucide="sliders" class="w-5 h-5 text-indigo-500"></i>

<span>Customize Your Search</span>

</h3>

<div class="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-5 gap-4 items-end">

<!-- Brand Filter (NEW) -->

<div class="col-span-1">

<label for="brand-filter" class="block text-sm font-medium text-gray-700 mb-1">Select Brand</label>

<select id="brand-filter" onchange="filterProducts()" class="w-full p-2.5 border border-gray-300 rounded-lg bg-white focus:ring-indigo-500 focus:border-indigo-500 transition duration-150">

<!-- Options injected by JS -->

</select>

</div>

<!-- Min Price Input -->

<div class="col-span-1">

<label for="min-price" class="block text-sm font-medium text-gray-700 mb-1">Min Price (৳)</label>

<input type="number" id="min-price" oninput="filterProducts()" placeholder="e.g., 10000" class="w-full p-2 border border-gray-300 rounded-lg focus:ring-indigo-500 focus:border-indigo-500 transition duration-150" min="0">

</div>

<!-- Max Price Input -->

<div class="col-span-1">

<label for="max-price" class="block text-sm font-medium text-gray-700 mb-1">Max Price (৳)</label>

<input type="number" id="max-price" oninput="filterProducts()" placeholder="e.g., 50000" class="w-full p-2 border border-gray-300 rounded-lg focus:ring-indigo-500 focus:border-indigo-500 transition duration-150" min="0">

</div>

<!-- Quick Filter Buttons -->

<div class="col-span-2 flex flex-wrap gap-2">

<button onclick="setQuickFilter(10000, 30000)" class="px-3 py-2 text-sm rounded-full bg-indigo-50 hover:bg-indigo-100 text-indigo-700 font-medium transition whitespace-nowrap">৳10k - 30k (Budget)</button>

<button onclick="setQuickFilter(50000, 90000)" class="px-3 py-2 text-sm rounded-full bg-indigo-50 hover:bg-indigo-100 text-indigo-700 font-medium transition whitespace-nowrap">৳50k - 90k (Mid)</button>

<button onclick="setQuickFilter(100000, 200000)" class="px-3 py-2 text-sm rounded-full bg-indigo-50 hover:bg-indigo-100 text-indigo-700 font-medium transition whitespace-nowrap">৳100k+ (Flagship)</button>

<button onclick="clearFilter()" class="px-3 py-2 text-sm rounded-full bg-red-50 hover:bg-red-100 text-red-700 font-medium transition flex items-center whitespace-nowrap">

<i data-lucide="x-circle" class="w-4 h-4 mr-1"></i>

Clear Filters

</button>

</div>

</div>

<p id="filter-message" class="text-sm text-red-600 mt-2 hidden flex items-center">

<i data-lucide="bell" class="w-4 h-4 mr-1"></i>

Please ensure the minimum price is less than the maximum price.

</p>

</section>

<!-- ----------------------------------------- -->

<!-- Product Catalogue Section -->

<section>

<h2 class="text-3xl font-bold text-gray-800 mb-8 text-center md:text-left">Featured Devices (Prices in ৳ BDT)</h2>

<!-- Product Grid -->

<div id="product-grid" class="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-4 gap-8">

<!-- Products will be injected here by JavaScript -->

</div>

<!-- No Results Message -->

<div id="no-results" class="hidden text-center py-12">

<i data-lucide="frown" class="w-12 h-12 mx-auto text-gray-400 mb-4"></i>

<p class="text-xl text-gray-600">Sorry, no products match your current budget and brand selection.</p>

<button onclick="clearFilter()" class="mt-4 text-indigo-600 hover:text-indigo-800 font-medium flex items-center justify-center mx-auto">

<i data-lucide="refresh-cw" class="w-4 h-4 mr-1"></i>

Clear Filters to see all devices

</button>

</div>

</section>

</main>

<!-- Footer -->

<footer class="bg-gray-900 text-white py-10 mt-12">

<div class="max-w-7xl mx-auto px-4 sm:px-6 lg:px-8 grid grid-cols-2 md:grid-cols-4 gap-8">

<div>

<h3 class="font-bold text-lg mb-3 text-indigo-400">Company</h3>

<ul class="space-y-2 text-gray-400 text-sm">

<li><a href="#" class="hover:text-white transition duration-150">Our Story</a></li>

<li><a href="#" class="hover:text-white transition duration-150">Careers</a></li>

<li><a href="#" class="hover:text-white transition duration-150">Press</a></li>

</ul>

</div>

<!-- UPDATED: Contact & Support Section -->

<div>

<h3 class="font-bold text-lg mb-3 text-indigo-400">Contact & Support</h3>

<ul class="space-y-2 text-gray-400 text-sm">

<!-- Email Address -->

<li>

<a href="mailto:shihabmdzubayersalehin@gmail.com" class="hover:text-white transition duration-150 flex items-center">

<i data-lucide="mail" class="w-4 h-4 mr-2"></i>

shihabmdzubayersalehin@gmail.com

</a>

</li>

<!-- Phone Number -->

<li>

<a href="tel:+8801330797876" class="hover:text-white transition duration-150 flex items-center">

<i data-lucide="phone" class="w-4 h-4 mr-2"></i>

01330797876

</a>

</li>

<li><a href="#" class="hover:text-white transition duration-150">FAQ</a></li>

<li><a href="#" class="hover:text-white transition duration-150">Shipping & Returns</a></li>

</ul>

</div>

<div>

<h3 class="font-bold text-lg mb-3 text-indigo-400">Legal</h3>

<ul class="space-y-2 text-gray-400 text-sm">

<li><a href="#" class="hover:text-white transition duration-150">Privacy Policy</a></li>

<li><a href="#" class="hover:text-white transition duration-150">Terms of Service</a></li>

</ul>

</div>

<div class="col-span-2 md:col-span-1">

<h3 class="font-bold text-lg mb-3 text-indigo-400">Newsletter</h3>

<p class="text-gray-400 text-sm mb-4">

Get the latest releases and news updates.

</p>

<div class="flex">

<input type="email" placeholder="Your email" class="p-3 rounded-l-lg text-gray-900 focus:outline-none w-full">

<button class="bg-indigo-600 p-3 rounded-r-lg hover:bg-indigo-700 transition duration-150">

<i data-lucide="send" class="w-5 h-5"></i>

</button>

</div>

</div>

</div>

<div class="border-t border-gray-700 mt-8 pt-6 text-center text-gray-500 text-sm">

&copy; 2025 NextGen Mobile Catalogue. All rights reserved.

</div>

</footer>

<!-- Product Detail Modal (Hidden by default) -->

<div id="product-modal" class="hidden fixed inset-0 z-[100] flex items-center justify-center p-4 modal-overlay" onclick="closeModal(event)">

<div id="modal-content-card" class="bg-white rounded-xl shadow-2xl w-full max-w-4xl max-h-[90vh] overflow-y-auto transform transition-all duration-300 scale-95 opacity-0" onclick="event.stopPropagation()">

<div class="p-6 md:p-8 flex flex-col md:flex-row space-y-6 md:space-y-0 md:space-x-8">

<!-- Close Button -->

<button class="absolute top-4 right-4 text-gray-500 hover:text-gray-900 transition duration-150" onclick="closeModal()">

<i data-lucide="x" class="w-6 h-6"></i>

</button>

<!-- Product Image Area -->

<div class="md:w-1/2 flex items-center justify-center bg-gray-100 rounded-lg p-6">

<img id="modal-image" src="" alt="Product Image" class="w-full h-auto max-h-80 object-contain rounded-lg">

</div>

<!-- Product Info Area -->

<div class="md:w-1/2">

<h2 id="modal-name" class="text-3xl font-bold text-gray-900 mb-2"></h2>

<p class="text-indigo-600 text-2xl font-extrabold mb-6">

Price: ৳<span id="modal-price"></span>

</p>

<h3 class="text-lg font-semibold mb-2">Detailed Overview</h3>

<p id="modal-description" class="text-gray-600 mb-6 leading-relaxed"></p>

<div class="space-y-4">

<h3 class="text-lg font-semibold mb-2">Key Specifications</h3>

<!-- Key Features / Specs List -->

<ul id="modal-specs-list" class="space-y-2 text-gray-700">

<!-- Specs will be injected here by JS -->

</ul>

</div>

</div>

</div>

</div>

</div>

<script>

// Initialize Lucide Icons

lucide.createIcons();

// --- Product Data (Expanded List including Tecno and Infinix) ---

const products = [

// --- APPLE (Flagship & Mid-range) ---

{

id: 1,

name: "iPhone 18 Pro Max",

price: 195000,

brand: "Apple",

desc: "Powerful A18 Bionic chip, cinematic video, and ProMotion display. Unmatched performance and ecosystem experience.",

image: "https://placehold.co/400x400/1D4ED8/ffffff?text=Loading",

imagePrompt: "Minimalist black smartphone with triple camera system, large screen, sleek design, on a white background, studio quality, product photo",

specs: {

Display: ["6.7-inch Super Retina XDR OLED", "ProMotion 120Hz Technology", "Ceramic Shield Front Cover"],

Camera: ["Main: 48MP (Sensor-shift OIS)", "Telephoto: 12MP (5x Optical Zoom)"],

Platform: ["Apple A18 Bionic Chip", "6GB RAM (estimated)"],

Battery: ["Estimated 4800mAh Battery", "15W MagSafe Wireless Charging"]

}

},

{

id: 11,

name: "iPhone 16",

price: 155000,

brand: "Apple",

desc: "The latest main-line iPhone. Excellent dual-camera system, robust design, and all-day battery life.",

image: "https://placehold.co/400x400/3B82F6/ffffff?text=Loading",

imagePrompt: "Standard blue iPhone, dual camera setup, high quality product shot, simple background",

specs: {

Display: ["6.1-inch Super Retina XDR OLED", "60Hz Standard Refresh Rate"],

Camera: ["Main: 48MP Wide (OIS)", "Ultra-wide: 12MP"],

Platform: ["Apple A17 Bionic Chip", "6GB RAM (estimated)"],

Battery: ["Estimated 4500mAh Battery", "20W Fast Charging"]

}

},

{

id: 12,

name: "iPhone SE (4th Gen)",

price: 52000,

brand: "Apple",

desc: "Flagship A-series power in a compact, classic design. Perfect for Apple fans on a budget.",

image: "https://placehold.co/400x400/10B981/ffffff?text=Loading",

imagePrompt: "White iPhone SE with large bezels, single camera, on a clean desk, affordable Apple look",

specs: {

Display: ["4.7-inch Retina HD LCD", "Classic Home Button"],

Camera: ["Main: 12MP Single Lens (OIS)"],

Platform: ["Apple A15 Bionic Chip", "4GB RAM (estimated)"],

Battery: ["Estimated 2000mAh Battery", "18W Fast Charging"]

}

},

// --- SAMSUNG (Flagship, Mid-range & Budget) ---

{

id: 2,

name: "Samsung Galaxy S25 Ultra",

price: 169999,

brand: "Samsung",

desc: "The ultimate flagship with a 200MP camera, S Pen support, and a stunning Dynamic AMOLED display.",

image: "https://placehold.co/400x400/0E7490/ffffff?text=Loading",

imagePrompt: "Ultra modern high-end smartphone with stylus and four cameras, titanium finish, on a white background, studio quality, product photo",

specs: {

Display: ["6.8-inch Dynamic AMOLED 2X", "1-120Hz Adaptive Refresh Rate"],

Camera: ["Main: 200MP Wide (OIS)", "Periscope: 50MP (10x Optical)"],

Platform: ["Snapdragon 8 Gen 4 for Galaxy", "12GB RAM LPDDR5X"],

Battery: ["5000mAh Capacity", "45W Super Fast Charging"]

}

},

{

id: 13,

name: "Samsung Galaxy A55",

price: 45999,

brand: "Samsung",

desc: "Premium mid-range phone with a stunning Super AMOLED display, metal frame, and capable triple camera.",

image: "https://placehold.co/400x400/F59E0B/ffffff?text=Loading",

imagePrompt: "Mid-range Samsung Galaxy A-series phone, pastel blue color, triple camera system, clean shot",

specs: {

Display: ["6.6-inch Super AMOLED", "120Hz Refresh Rate"],

Camera: ["Main: 50MP (OIS)", "Ultra-wide: 12MP", "Macro: 5MP"],

Platform: ["Exynos 1480", "8GB RAM"],

Battery: ["5000mAh Capacity", "25W Fast Charging"]

}

},

{

id: 14,

name: "Samsung Galaxy M15",

price: 14999,

brand: "Samsung",

desc: "Budget-friendly phone with a massive \*\*6000mAh battery\*\* and Super AMOLED display. Unmatched endurance.",

image: "https://placehold.co/400x400/8B5CF6/ffffff?text=Loading",

imagePrompt: "Budget Samsung Galaxy M-series phone, dark purple color, large battery capacity focus, product shot",

specs: {

Display: ["6.5-inch Super AMOLED", "90Hz Refresh Rate"],

Camera: ["Main: 50MP", "Ultra-wide: 5MP"],

Platform: ["MediaTek Dimensity 6100+", "4GB RAM"],

Battery: ["6000mAh Capacity", "25W Fast Charging"]

}

},

// --- VIVO (Flagship, Mid-range & Budget) ---

{

id: 3,

name: "Vivo V30 Pro",

price: 68990,

brand: "Vivo",

desc: "A flagship portrait phone with \*\*ZEISS optics\*\* and a stunning curved AMOLED display. Excellent camera performance.",

image: "https://placehold.co/400x400/0047AB/ffffff?text=Loading",

imagePrompt: "High-end Vivo smartphone, sleek black back, large camera module with ZEISS branding, studio lighting, product photo",

specs: {

Display: ["6.78-inch AMOLED Curved Display", "120Hz Refresh Rate"],

Camera: ["Main: 50MP (ZEISS OIS)", "Telephoto: 50MP (2x Optical)"],

Platform: ["MediaTek Dimensity 8200", "12GB RAM LPDDR5X"],

Battery: ["4800mAh Capacity", "80W FlashCharge"]

}

},

{

id: 15,

name: "Vivo X100 Pro",

price: 145000,

brand: "Vivo",

desc: "The absolute pinnacle of mobile photography, featuring a 1-inch sensor and the latest V3 imaging chip.",

image: "https://placehold.co/400x400/EF4444/ffffff?text=Loading",

imagePrompt: "Ultra-flagship Vivo X-series phone, massive circular camera module, deep orange vegan leather finish, high-end studio shot",

specs: {

Display: ["6.78-inch LTPO AMOLED", "120Hz Adaptive Refresh Rate"],

Camera: ["Main: 50MP (1-inch Sensor)", "Periscope: 50MP (4.3x Optical)", "V3 Imaging Chip"],

Platform: ["MediaTek Dimensity 9300", "16GB RAM LPDDR5X"],

Battery: ["5400mAh Capacity", "100W Wired, 50W Wireless Charging"]

}

},

{

id: 16,

name: "Vivo Y200e",

price: 26990,

brand: "Vivo",

desc: "Stylish and reliable mid-range device with a premium vegan leather finish and solid camera performance.",

image: "https://placehold.co/400x400/94A3B8/ffffff?text=Loading",

imagePrompt: "Budget Vivo Y-series phone, vegan leather texture on the back, dual camera setup, soft focus shot",

specs: {

Display: ["6.67-inch AMOLED", "120Hz Refresh Rate"],

Camera: ["Main: 50MP (OIS)", "Depth: 2MP"],

Platform: ["Snapdragon 4 Gen 2", "6GB/8GB RAM"],

Battery: ["5000mAh Capacity", "44W Fast Charging"]

}

},

// --- REALME (Mid-range & Budget) ---

{

id: 4,

name: "Realme GT Neo 6",

price: 49990,

brand: "Realme",

desc: "High-performance smartphone built for speed and fluid gaming with powerful processor and vibrant screen.",

image: "https://placehold.co/400x400/1F2937/ffffff?text=Loading",

imagePrompt: "High-performance smartphone with yellow accent or racing stripe on the back, futuristic tech background, gaming focus, product photo",

specs: {

Display: ["6.7-inch Super AMOLED", "144Hz Variable Refresh Rate"],

Camera: ["Main: 50MP Wide (OIS)", "Ultra-wide: 8MP"],

Platform: ["Snapdragon 8+ Gen 1 Processor", "12GB/16GB RAM"],

Battery: ["5000mAh Dual-Cell Battery", "80W SuperDart Charge"]

}

},

{

id: 17,

name: "Realme 13 Pro",

price: 58990,

brand: "Realme",

desc: "Premium experience with a \*\*curved display\*\*, exceptional fast charging, and a beautiful design.",

image: "https://placehold.co/400x400/991B1B/ffffff?text=Loading",

imagePrompt: "Red colored upper mid-range Realme phone, curved display visible, high glossy finish, product photo",

specs: {

Display: ["6.7-inch Curved AMOLED", "120Hz Refresh Rate"],

Camera: ["Main: 108MP ProLight", "Telephoto: 32MP (2x Optical)"],

Platform: ["MediaTek Dimensity 7050", "12GB RAM"],

Battery: ["5000mAh Capacity", "67W SuperVOOC Charge"]

}

},

{

id: 5,

name: "Realme C65",

price: 16990,

brand: "Realme",

desc: "An affordable champion offering smooth performance and premium design features for the budget-conscious user.",

image: "https://placehold.co/400x400/8B5CF6/ffffff?text=Loading",

imagePrompt: "Affordable budget smartphone, glossy purple finish, clean background, product photo",

specs: {

Display: ["6.67-inch IPS LCD Display", "90Hz Refresh Rate"],

Camera: ["Main: 50MP AI Camera", "Front: 8MP"],

Platform: ["MediaTek Helio G85 Processor", "6GB RAM"],

Battery: ["5000mAh Capacity", "15W Charging Support"]

}

},

// --- NOKIA (Mid-range & Budget) ---

{

id: 6,

name: "Nokia C22",

price: 13500,

brand: "Nokia",

desc: "The lowest-priced smartphone. Focused on durability and 3-day battery life. Essential features for first-time users.",

image: "https://placehold.co/400x400/F59E0B/ffffff?text=Loading",

imagePrompt: "Entry-level smartphone, focus on durability and solid build, dark gray color, close-up shot, product photo",

specs: {

Display: ["6.5-inch HD+ Display", "Toughened Glass Protection"],

Camera: ["Main: 13MP", "Front: 8MP"],

Platform: ["Unisoc SC9863A Processor", "3GB/4GB RAM", "Android 13 Go Edition"],

Battery: ["5050mAh Capacity (3-Day Battery Life)", "IP52 Protection"]

}

},

{

id: 18,

name: "Nokia G400 5G",

price: 32000,

brand: "Nokia",

desc: "Reliable 5G mid-ranger with a durable design, near-stock Android experience, and high-refresh-rate display.",

image: "https://placehold.co/400x400/059669/ffffff?text=Loading",

imagePrompt: "Mid-range Nokia phone, forest green color, solid build quality, product shot",

specs: {

Display: ["6.6-inch IPS LCD", "120Hz Refresh Rate"],

Camera: ["Main: 48MP", "Ultra-wide: 5MP"],

Platform: ["Snapdragon 480+ 5G", "6GB RAM"],

Battery: ["5000mAh Capacity", "20W Fast Charging"]

}

},

// --- GOOGLE, ONEPLUS, MOTOROLA, XIAOMI ---

{

id: 7,

name: "Google Pixel 10",

price: 85500,

brand: "Google",

desc: "Pure Android experience with revolutionary AI features and the best computational photography in the market.",

image: "https://placehold.co/400x400/4F46E5/ffffff?text=Loading",

imagePrompt: "Modern dual-tone smartphone with a signature camera bar, on a clean, light background, high-angle shot, product photo",

specs: {

Display: ["6.3-inch Actua OLED Display", "120Hz Refresh Rate"],

Camera: ["Main: 50MP Wide (OIS)", "Ultra-wide: 12MP"],

Platform: ["Google Tensor G4 Chip", "Titan M2 Security Coprocessor"],

Battery: ["4600mAh Capacity", "30W Fast Charging"]

}

},

{

id: 8,

name: "OnePlus 13R",

price: 62900,

brand: "OnePlus",

desc: "A performance beast with 100W SuperVOOC charging and a silky-smooth 120Hz Fluid AMOLED display.",

image: "https://placehold.co/400x400/991B1B/ffffff?text=Loading",

imagePrompt: "Red colored high-end gaming smartphone, sleek aesthetic, fast charge visual effect, on a dark background, product photo",

specs: {

Display: ["6.74-inch Fluid AMOLED", "120Hz Adaptive Refresh Rate"],

Camera: ["Main: 64MP Wide (OIS)", "Ultra-wide: 8MP"],

Platform: ["MediaTek Dimensity 9200+", "16GB LPDDR5X RAM"],

Battery: ["5500mAh Capacity", "100W SUPERVOOC Charging"]

}

},

{

id: 9,

name: "Xiaomi Redmi Note 14 Pro",

price: 34500,

brand: "Xiaomi",

desc: "Best-value mid-ranger with a 108MP camera, long-lasting battery, and fast charging. The perfect balance of features and cost.",

image: "https://placehold.co/400x400/581C87/ffffff?text=Loading",

imagePrompt: "Mid-range smartphone, vibrant blue glossy back, large camera module, on a neutral grey studio surface, product photo",

specs: {

Display: ["6.67-inch AMOLED DotDisplay", "120Hz Refresh Rate"],

Camera: ["Main: 108MP Wide", "Ultra-wide: 8MP"],

Platform: ["Snapdragon 778G+ 5G Processor", "8GB RAM"],

Battery: ["5000mAh Capacity", "67W Turbo Charging"]

}

},

{

id: 10,

name: "Motorola Moto G50",

price: 19990,

brand: "Motorola",

desc: "Budget-friendly 5G experience with a massive battery and clean, near-stock Android software. Reliable daily driver.",

image: "https://placehold.co/400x400/059669/ffffff?text=Loading",

imagePrompt: "Budget 5G Android smartphone, clean design, mint green color, simple shot on white background, product photo",

specs: {

Display: ["6.5-inch Max Vision HD+", "90Hz Refresh Rate"],

Camera: ["Main: 48MP (Quad Pixel)", "Depth: 2MP"],

Platform: ["Snapdragon 480 5G Processor", "4GB RAM"],

Battery: ["6000mAh Capacity", "15W Charging Support"]

}

},

// --- TECNO (NEW ADDITIONS) ---

{

id: 19,

name: "Tecno Camon 30 Premier",

price: 64990,

brand: "Tecno",

desc: "Premium experience with a dedicated imaging chip, advanced camera features, and large memory capacity.",

image: "https://placehold.co/400x400/FF00FF/ffffff?text=Loading",

imagePrompt: "High-end Tecno smartphone, black body, large circular camera module, professional product shot.",

specs: {

Display: ["6.77-inch LTPO AMOLED", "120Hz Adaptive Refresh Rate"],

Camera: ["Main: 50MP (OIS)", "Periscope: 50MP (3x Optical)", "50MP Ultra-wide"],

Platform: ["MediaTek Dimensity 8200 Ultra", "12GB RAM"],

Battery: ["5000mAh Capacity", "70W Ultra Charge"]

}

},

{

id: 20,

name: "Tecno Spark 20 Pro+",

price: 24990,

brand: "Tecno",

desc: "Mid-range stylish device with a curved display, 108MP camera, and superior stereo speakers.",

image: "https://placehold.co/400x400/FF5733/ffffff?text=Loading",

imagePrompt: "Stylish mid-range Tecno phone, curved screen visible, gold or bronze color finish, product photo.",

specs: {

Display: ["6.78-inch AMOLED Curved Display", "120Hz Refresh Rate"],

Camera: ["Main: 108MP Ultra Sensor", "Front: 32MP Selfie Camera"],

Platform: ["MediaTek Helio G99 Ultimate", "8GB RAM"],

Battery: ["5000mAh Capacity", "33W Fast Charging"]

}

},

{

id: 21,

name: "Tecno Pop 8",

price: 11500,

brand: "Tecno",

desc: "An entry-level smartphone focusing on long battery life and a large, bright display for daily tasks.",

image: "https://placehold.co/400x400/00FFFF/000000?text=Loading",

imagePrompt: "Simple, budget Tecno phone, plastic build, large size, dark blue color, focused on affordability.",

specs: {

Display: ["6.6-inch HD+ LCD", "90Hz Refresh Rate"],

Camera: ["Main: 13MP Dual Camera"],

Platform: ["Unisoc T606", "4GB RAM"],

Battery: ["5000mAh Capacity", "10W Charging"]

}

},

// --- INFINIX (NEW ADDITIONS) ---

{

id: 22,

name: "Infinix GT 20 Pro",

price: 47990,

brand: "Infinix",

desc: "Dedicated gaming phone with Cyberpunk-inspired design, specialized chip, and a 144Hz AMOLED display.",

image: "https://placehold.co/400x400/40E0D0/ffffff?text=Loading",

imagePrompt: "Aggressive gaming smartphone design with visible LED lights or transparent panel, focused on performance and speed, product photo.",

specs: {

Display: ["6.78-inch AMOLED", "144Hz Ultra Refresh Rate"],

Camera: ["Main: 108MP (OIS)", "Dual auxiliary lenses"],

Platform: ["MediaTek Dimensity 8200 Ultimate", "12GB RAM LPDDR5X"],

Battery: ["5000mAh Capacity", "45W Fast Charging", "Dedicated X-Boost Gaming Mode"]

}

},

{

id: 23,

name: "Infinix Note 40 Pro",

price: 36990,

brand: "Infinix",

desc: "Premium mid-range phone featuring All-Round FastCharge 2.0 and a curved AMOLED display. Excellent value.",

image: "https://placehold.co/400x400/008080/ffffff?text=Loading",

imagePrompt: "Sleek mid-range Infinix phone, bright green or gold color, curved display, high-quality product shot.",

specs: {

Display: ["6.78-inch Curved AMOLED", "120Hz Refresh Rate"],

Camera: ["Main: 108MP (OIS)", "Front: 32MP"],

Platform: ["MediaTek Dimensity 7020", "8GB RAM"],

Battery: ["5000mAh Capacity", "70W FastCharge", "20W Wireless MagCharge"]

}

},

{

id: 24,

name: "Infinix Smart 8 HD",

price: 9999,

brand: "Infinix",

desc: "Extremely affordable entry point, offering a smooth 90Hz display and a durable battery for essential connectivity.",

image: "https://placehold.co/400x400/FFA07A/000000?text=Loading",

imagePrompt: "Lowest budget Infinix phone, simple design, light blue or black color, focusing on price point, clean shot.",

specs: {

Display: ["6.6-inch HD+ IPS LCD", "90Hz Refresh Rate"],

Camera: ["Main: 13MP Dual AI Camera"],

Platform: ["Unisoc T606", "3GB RAM"],

Battery: ["5000mAh Capacity", "10W Charging"]

}

},

];

const apiKey = ""; // API key is handled by the environment

const apiUrl = `https://generativelanguage.googleapis.com/v1beta/models/imagen-3.0-generate-002:predict?key=${apiKey}`;

const productGrid = document.getElementById('product-grid');

const noResultsMessage = document.getElementById('no-results');

/\*\*

\* Helper function to delay execution (for exponential backoff).

\* @param {number} ms - Milliseconds to wait.

\*/

function delay(ms) {

return new Promise(resolve => setTimeout(resolve, ms));

}

/\*\*

\* Fetches an image from the API with exponential backoff.

\* @param {string} prompt - The image generation prompt.

\* @param {number} retries - Number of retries remaining.

\* @returns {Promise<string|null>} Base64 image data string or null on failure.

\*/

async function generateImageWithBackoff(prompt, retries = 3) {

const payload = {

instances: [{ prompt: prompt }],

parameters: { "sampleCount": 1, "aspectRatio": "1:1" }

};

for (let i = 0; i < retries; i++) {

try {

const response = await fetch(apiUrl, {

method: 'POST',

headers: { 'Content-Type': 'application/json' },

body: JSON.stringify(payload)

});

if (!response.ok) {

if (response.status === 429 && i < retries - 1) { // Rate limit

await delay(Math.pow(2, i) \* 1000); // Exponential backoff

continue;

}

throw new Error(`API call failed with status: ${response.status}`);

}

const result = await response.json();

if (result.predictions && result.predictions.length > 0 && result.predictions[0].bytesBase64Encoded) {

return result.predictions[0].bytesBase64Encoded;

}

return null;

} catch (error) {

if (i < retries - 1) {

await delay(Math.pow(2, i) \* 1000); // Exponential backoff

} else {

console.error("Failed to generate image after multiple retries:", error);

return null;

}

}

}

return null;

}

/\*\*

\* Renders the product grid cards based on the provided list of products.

\* @param {Array} filteredProducts - The list of products to display.

\*/

function renderProducts(filteredProducts = products) {

if (!productGrid) return;

if (filteredProducts.length === 0) {

productGrid.innerHTML = '';

noResultsMessage.classList.remove('hidden');

return;

}

noResultsMessage.classList.add('hidden');

// Generate initial card HTML with either generated image or loading state

productGrid.innerHTML = filteredProducts.map(product => `

<div id="product-${product.id}" class="product-card bg-white rounded-xl shadow-lg p-6 cursor-pointer flex flex-col items-center text-center" onclick="openModal(${product.id})">

<!-- Image Area -->

<div id="image-container-${product.id}" class="h-48 w-full flex items-center justify-center mb-4 overflow-hidden rounded-lg bg-gray-200">

${product.image && product.image.startsWith('data:image') ?

`<img src="${product.image}" alt="${product.name}" class="object-cover w-full h-full transform transition-transform duration-300 hover:scale-105" />` :

`<div class="spinner text-indigo-600"></div>`

}

</div>

<!-- Info -->

<span class="text-xs font-medium text-gray-500 bg-gray-100 rounded-full px-2 py-0.5 mb-2">${product.brand}</span>

<h3 class="text-xl font-semibold text-gray-900 mb-1">${product.name}</h3>

<p class="text-gray-500 text-sm mb-3">${product.desc.substring(0, 50)}...</p>

<p class="text-2xl font-extrabold text-purple-600 mb-4">৳${product.price.toLocaleString('en-IN')}</p>

<!-- Button - View Specs -->

<button class="w-full bg-purple-100 text-purple-600 font-medium py-2 rounded-lg hover:bg-purple-600 hover:text-white transition duration-200 flex items-center justify-center space-x-2">

<i data-lucide="info" class="w-4 h-4"></i>

<span>View Specs</span>

</button>

</div>

`).join('');

// Re-initialize Lucide icons for the newly injected content

lucide.createIcons();

// Start image generation for products that don't have a generated image yet

generateAndSetImages(filteredProducts);

}

/\*\*

\* Generates and updates images for all products that need it.

\* @param {Array} currentProducts - The list of products currently being rendered.

\*/

async function generateAndSetImages(currentProducts) {

for (const product of currentProducts) {

// Only generate if the image is the initial placeholder URL (not base64 data)

if (product.image && !product.image.startsWith('data:image')) {

const base64Data = await generateImageWithBackoff(product.imagePrompt);

const container = document.getElementById(`image-container-${product.id}`);

if (base64Data && container) {

const imageUrl = `data:image/png;base64,${base64Data}`;

// Update the product object with the new image URL

product.image = imageUrl;

// Update the DOM to show the image instead of the loader

container.innerHTML = `

<img id="image-${product.id}"

src="${imageUrl}"

alt="${product.name}"

class="object-cover w-full h-full transform transition-transform duration-300 hover:scale-105" />

`;

} else if (container) {

// Show generic placeholder if generation fails

container.innerHTML = `

<img id="image-${product.id}"

src="https://placehold.co/400x400/94A3B8/000000?text=Image+Failed"

alt="${product.name}"

class="object-cover w-full h-full" />

`;

}

}

}

}

/\*\*

\* Renders the dynamic brand filter dropdown options.

\*/

function renderBrandFilters() {

const brandFilterElement = document.getElementById('brand-filter');

if (!brandFilterElement) return;

// 1. Get unique sorted brands

const uniqueBrands = [...new Set(products.map(p => p.brand))].sort();

// 2. Build options HTML

let optionsHtml = '<option value="all">All Brands</option>';

uniqueBrands.forEach(brand => {

optionsHtml += `<option value="${brand}">${brand}</option>`;

});

// 3. Inject into the DOM

brandFilterElement.innerHTML = optionsHtml;

}

/\*\*

\* Filters the products based on the current price range AND selected brand.

\*/

function filterProducts() {

const minInput = document.getElementById('min-price');

const maxInput = document.getElementById('max-price');

const brandSelect = document.getElementById('brand-filter');

const message = document.getElementById('filter-message');

const minPrice = parseInt(minInput.value) || 0;

const maxPrice = parseInt(maxInput.value) || Infinity;

const selectedBrand = brandSelect.value;

// Validation

if (minPrice > maxPrice && maxInput.value !== '') {

message.classList.remove('hidden');

productGrid.innerHTML = '';

noResultsMessage.classList.add('hidden');

return;

} else {

message.classList.add('hidden');

}

// Combined Filtering Logic

const filtered = products.filter(product => {

const priceMatch = product.price >= minPrice && product.price <= maxPrice;

const brandMatch = selectedBrand === 'all' || product.brand === selectedBrand;

return priceMatch && brandMatch;

});

renderProducts(filtered);

}

/\*\*

\* Sets the price inputs and triggers the filter.

\* @param {number} min - Minimum price for the quick filter.

\* @param {number} max - Maximum price for the quick filter.

\*/

function setQuickFilter(min, max) {

document.getElementById('min-price').value = min;

document.getElementById('max-price').value = max;

filterProducts();

}

/\*\*

\* Clears all filters and resets the display.

\*/

function clearFilter() {

document.getElementById('min-price').value = '';

document.getElementById('max-price').value = '';

document.getElementById('brand-filter').value = 'all'; // Reset brand filter

document.getElementById('filter-message').classList.add('hidden');

renderProducts(products); // Show all products

}

/\*\*

\* Opens the product detail modal and injects the detailed, categorized specs.

\* (Kept the original openModal function for functionality)

\* @param {number} productId - The ID of the product to display.

\*/

function openModal(productId) {

const product = products.find(p => p.id === productId);

if (!product) return;

// Get elements

const modal = document.getElementById('product-modal');

const modalContentCard = document.getElementById('modal-content-card');

// Populate basic modal content

document.getElementById('modal-name').textContent = product.name;

document.getElementById('modal-price').textContent = product.price.toLocaleString('en-IN');

document.getElementById('modal-description').textContent = product.desc;

// Use the dynamically generated image URL (or the fallback placeholder)

document.getElementById('modal-image').src = product.image;

document.getElementById('modal-image').alt = product.name;

// Populate detailed specifications list

const specsList = document.getElementById('modal-specs-list');

specsList.innerHTML = ''; // Clear previous content

for (const category in product.specs) {

if (product.specs.hasOwnProperty(category)) {

// Add Category Header

specsList.innerHTML += `<li class="font-bold text-gray-900 mt-4 mb-1 border-b border-purple-100 pb-1">${category}</li>`;

// Add Sub-features

product.specs[category].forEach(spec => {

specsList.innerHTML += `

<li class="flex items-start text-sm ml-2 py-0.5">

<i data-lucide="chevrons-right" class="w-4 h-4 text-purple-500 mr-2 flex-shrink-0 mt-0.5"></i>

<span>${spec}</span>

</li>

`;

});

}

}

lucide.createIcons(); // Re-initialize icons for the new list items

// Show modal

modal.classList.remove('hidden');

document.body.classList.add('overflow-hidden');

// Animate in

setTimeout(() => {

modalContentCard.classList.remove('scale-95', 'opacity-0');

modalContentCard.classList.add('scale-100', 'opacity-100');

}, 10);

}

/\*\*

\* Closes the product detail modal.

\* @param {Event} event - Optional click event to check if click was on overlay.

\*/

function closeModal(event) {

const modal = document.getElementById('product-modal');

const modalContentCard = document.getElementById('modal-content-card');

// Only close if clicked on the modal overlay itself, or if 'event' is not provided (e.g., from X button)

if (!event || event.target === modal) {

// Animate out

modalContentCard.classList.remove('scale-100', 'opacity-100');

modalContentCard.classList.add('scale-95', 'opacity-0');

// Hide modal after transition

setTimeout(() => {

modal.classList.add('hidden');

document.body.classList.remove('overflow-hidden');

}, 300);

}

}

// Initialize the app when the window loads

window.onload = function() {

renderBrandFilters(); // Initialize the brand filter dropdown

renderProducts();

};

// Initialize Lucide icons after dynamic content is added

document.addEventListener('DOMContentLoaded', () => {

lucide.createIcons();

});

</script>

</body>

</html>