

**LAPORAN PRAKTIKUM
PERANCANGAN DAN PEMROGRAMAN WEB**

**MODUL 5
(NAMA MODUL)**



**Universitas
Telkom**

Oleh:

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**PROGRAM STUDI S1 REKAYASA PERANGKAT LUNAK
DIREKTORAT KAMPUS PURWOKERTO
UNIVERSITAS TELKOM
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BAB I

PENDAHULUAN

A. Dasar Teori

HTML: Menyediakan struktur dan konten (kerangka halaman).

CSS/Bootstrap: Mengatur presentasi dan desain (tampilan responsif dan gaya ungu).

JavaScript: Mengelola interaksi dan fungsionalitas (Modal, *Toast*, dan logika keranjang).

B. Tujuan

Pengalaman E-commerce: Menyajikan produk dan memungkinkan pengguna untuk menambahkan item ke keranjang (simulasi pembelian).

Manajemen Data Sesi: Menggunakan `localStorage` untuk menyimpan data keranjang secara lokal, memastikan item tidak hilang saat navigasi.

Responsivitas: Membangun antarmuka yang optimal di semua perangkat (prioritas *mobile-first*) menggunakan Bootstrap 5.

Umpaman Balik Instan: Memberikan konfirmasi visual melalui *badge* yang diperbarui dan notifikasi *Toast*.

BAB II

HASIL

A. UNGUIDED (Tugas Mandiri)

1. Design yang sudah dibuat di pertemuan sebelumnya, dibuat responsive menggunakan bootstrap Ps: Berikan penjelasan komponen bootstrap apa saja yang digunakan.

Jawaban:

Source Code:

```
<!doctype html>
<html lang="id">
<head>
<meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<title>Batik Nusantara - Beranda</title>

<!-- Google Font: Poppins -->
<link
href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700&display=swap" rel="stylesheet">

<!-- Bootstrap CSS (CDN) -->
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">

<style>
/* ----- Basic ----- */
:root{
--purple-500: #7a2de3;
--purple-700: #4a148c;
--accent: #d11ee0;
--muted-bg: #f8f4ff;
--soft-pink: #ffd7ff;
}
html,body{height:100%;}
body {
font-family: 'Poppins', sans-serif;
background: var(--muted-bg);
color: #222;
```

```
-webkit-font-smoothing:antialiased;
-moz-osx-font-smoothing:grayscale;
}
a { text-decoration: none; }

/* ----- NAVBAR ----- */
.navbar {
    background: linear-gradient(90deg, var(--purple-500), var(--accent));
}
.navbar .navbar-brand {
    font-weight: 700;
    color: #fff !important;
    letter-spacing: .2px;
}
.navbar .nav-link {
    color: rgba(255,255,255,0.95) !important;
    font-weight: 500;
}
.navbar .nav-link:hover {
    color: var(--soft-pink) !important;
    text-decoration: underline;
}
.navbar.shadow-modern {
    box-shadow: 0 6px 18px rgba(122,45,227,0.12);
}
.btn-outline-light.custom {
    border-color: rgba(255,255,255,0.25);
    color: #fff !important;
}
.navbar-toggler {
    border-color: rgba(255,255,255,0.35);
}
.navbar-toggler-icon {
    background-image: url("data:image/svg+xml,%3csvg
xmlns='http://www.w3.org/2000/svg' viewBox='0 0 30 30'%3e%3cpath
stroke='rgba%28255,255,255,0.9%29' stroke-linecap='round' stroke-
miterlimit='10' stroke-width='2' d='M4 7h22M4 15h22M4
23h22'%3e%3c/svg%3e");
}

/* cart badge */
.cart-badge {
    position: relative;
    display: inline-block;
}
.cart-badge .badge-count {
    position: absolute;
    top: -6px;
    right: -10px;
```

```
font-size: 0.65rem;
background: #ff4d94;
color: #fff;
border-radius: 999px;
padding: 0.18rem 0.35rem;
font-weight:700;
}

/* ----- HERO / BANNER ----- */
.carousel .carousel-item img {
height: 420px;
object-fit: cover;
width:100%;
}
@media (max-width:768px){
.carousel .carousel-item img { height: 220px; }
}
.hero-overlay {
background: linear-gradient(180deg, rgba(0,0,0,0.12), rgba(0,0,0,0.08));
position: absolute;
inset: 0;
pointer-events: none;
}

/* ----- PRODUCTS ----- */
.produk-card {
border: none;
border-radius: 12px;
overflow: hidden;
transition: transform .25s ease, box-shadow .25s ease;
background: #fff;
box-shadow: 0 6px 18px rgba(4,4,4,0.06);
}
.produk-card:hover {
transform: translateY(-6px);
box-shadow: 0 12px 30px rgba(4,4,4,0.09);
}
.produk-card img {
height: 200px;
object-fit: cover;
width:100%;
}
.produk-title {
font-size: 0.95rem;
font-weight: 600;
color: #2b1b51;
min-height: 44px;
}
.price {
```

```

        color: var(--purple-700);
        font-weight: 700;
    }
    .btn-beli {
        background: linear-gradient(90deg, var(--purple-500), var(--accent));
        border: none;
        color: #fff;
        font-weight: 600;
        border-radius: 8px;
        padding: .45rem .8rem;
        transition: transform .12s ease;
    }
    .btn-beli:hover { transform: translateY(-2px); box-shadow: 0 6px 18px
rgba(122,45,227,0.12); }

/* ----- FOOTER ----- */
footer {
    background: linear-gradient(180deg, var(--purple-700),
rgba(74,20,140,0.95));
    color: #fff;
    margin-top: 40px;
}
.footer-section h5 { color: #fff; font-weight: 700; }
.footer-bottom {
    background: rgba(255,255,255,0.04);
    padding-top: 12px;
    padding-bottom: 12px;
}

/* ----- Tiny helpers ----- */
.pill {
    display:inline-block;
    background: rgba(122,45,227,0.08);
    color: var(--purple-700);
    padding: 3px 8px;
    border-radius: 999px;
    font-size: 0.8rem;
    font-weight:600;
}

/* Modal product image */
.modal-product-img {
    width: 100%;
    height: 160px;
    object-fit: cover;
    border-radius: 8px;
}

/* Responsive tweaks */

```

```

    @media (max-width: 576px){
        .produk-card img { height: 160px; }
        .produk-title { min-height: 36px; font-size: 0.9rem; }
    }

    </style>
</head>
<body>

    <!-- NAVBAR -->
    <nav class="navbar navbar-expand-lg shadow-modern sticky-top">
        <div class="container">
            <a class="navbar-brand" href="#">Batik Nusantara</a>
            <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navMain" aria-controls="navMain" aria-expanded="false" aria-label="Toggle navigation">
                <span class="navbar-toggler-icon"></span>
            </button>

            <div class="collapse navbar-collapse" id="navMain">
                <ul class="navbar-nav ms-auto align-items-lg-center">
                    <li class="nav-item"><a class="nav-link active" href="index.html">Beranda</a></li>
                    <li class="nav-item"><a class="nav-link" href="produk.html">Produk</a></li>
                    <li class="nav-item"><a class="nav-link" href="member.html">Member</a></li>
                    <li class="nav-item">
                        <a class="nav-link d-flex align-items-center" href="keranjang.html" id="cartLink">
                            <span class="me-2">🛒</span>
                            <span>Keranjang</span>
                            <span class="cart-badge ms-2">
                                <span id="cartCount" class="badge-count">0</span>
                            </span>
                        </a>
                    </li>
                    <li class="nav-item"><a class="nav-link" href="register.html">Register</a></li>
                    <li class="nav-item ms-2"><a class="btn btn-outline-light custom" href="login.html">Login</a></li>
                </ul>
            </div>
        </div>
    </nav>

    <!-- HERO / BANNER (Carousel Bootstrap) -->
    <div class="position-relative">

```

```

<div id="carouselBanner" class="carousel slide" data-bs-ride="carousel">
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>
  <button class="carousel-control-prev" type="button" data-bs-target="#carouselBanner" data-bs-slide="prev">
    <span class="carousel-control-prev-icon" aria-hidden="true" style="filter: invert(1);"></span>
    <span class="visually-hidden">Sebelumnya</span>
  </button>
  <button class="carousel-control-next" type="button" data-bs-target="#carouselBanner" data-bs-slide="next">
    <span class="carousel-control-next-icon" aria-hidden="true" style="filter: invert(1);"></span>
    <span class="visually-hidden">Berikutnya</span>
  </button>
</div>
<div class="hero-overlay d-none d-md-block"></div>
</div>

<!-- MAIN CONTENT -->
<main class="container my-5">
  <div class="d-flex justify-content-between align-items-center mb-4">
    <h2 class="h4 text-primary fw-bold mb-0">Rekomendasi Produk</h2>
    <div class="d-none d-md-block">
      <span class="pill">Promo Hari Ini</span>
    </div>
  </div>

  <div class="row g-4">
    <!-- Product 1 -->
    <div class="col-6 col-md-4 col-lg-3">
      <div class="card produk-card h-100">
        
        <div class="card-body d-flex flex-column">
          <div class="produk-title">Hijab Batik Semi Sutra Aurora Olive Heritage</div>
          <div class="mt-2 mb-3">
            <div class="price">Rp89.999</div>
          </div>
        </div>
      </div>
    </div>
  </div>
</main>

```

```

<div class="mt-auto d-flex gap-2">
  <button class="btn btn-beli w-100"
    data-name="Hijab Batik Semi Sutra Aurora Olive Heritage"
    data-price="89999"
    data-img="Image/produk1.jpg">BELI</button>
</div>
</div>
</div>
</div>

<!-- Product 2 -->
<div class="col-6 col-md-4 col-lg-3">
  <div class="card produk-card h-100">
    
    <div class="card-body d-flex flex-column">
      <div class="produk-title">Hijab Batik Semi Sutra Sagara Golden Serenity</div>
      <div class="mt-2 mb-3"><div class="price">Rp89.999</div></div>
      <div class="mt-auto d-flex gap-2">
        <button class="btn btn-beli w-100"
          data-name="Hijab Batik Semi Sutra Sagara Golden Serenity"
          data-price="89999"
          data-img="Image/produk2.jpg">BELI</button>
      </div>
    </div>
  </div>
</div>
</div>

<!-- Product 3 -->
<div class="col-6 col-md-4 col-lg-3">
  <div class="card produk-card h-100">
    
    <div class="card-body d-flex flex-column">
      <div class="produk-title">Hijab Batik Semi Sutra Luna Ivory Grace</div>
      <div class="mt-2 mb-3"><div class="price">Rp89.999</div></div>
      <div class="mt-auto d-flex gap-2">
        <button class="btn btn-beli w-100"
          data-name="Hijab Batik Semi Sutra Luna Ivory Grace"
          data-price="89999"
          data-img="Image/produk3.jpg">BELI</button>
      </div>
    </div>
  </div>
</div>
</div>
</div>

<!-- Product 4 -->

```

```

<div class="col-6 col-md-4 col-lg-3">
  <div class="card produk-card h-100">
    
    <div class="card-body d-flex flex-column">
      <div class="produk-title">Hijab Batik Semi Sutra Choco Royal Essence</div>
      <div class="mt-2 mb-3"><div class="price">Rp89.999</div></div>
      <div class="mt-auto d-flex gap-2">
        <button class="btn btn-beli w-100"
          data-name="Hijab Batik Semi Sutra Choco Royal Essence"
          data-price="89999"
          data-img="Image/produk4.jpg">BELI</button>
      </div>
    </div>
  </div>
</div>

<!-- Product 5 -->
<div class="col-6 col-md-4 col-lg-3">
  <div class="card produk-card h-100">
    
    <div class="card-body d-flex flex-column">
      <div class="produk-title">Hijab Batik Semi Sutra Noir Batik Majesty</div>
      <div class="mt-2 mb-3"><div class="price">Rp89.999</div></div>
      <div class="mt-auto d-flex gap-2">
        <button class="btn btn-beli w-100"
          data-name="Hijab Batik Semi Sutra Noir Batik Majesty"
          data-price="89999"
          data-img="Image/produk5.jpg">BELI</button>
      </div>
    </div>
  </div>
</div>

<!-- Product 6 -->
<div class="col-6 col-md-4 col-lg-3">
  <div class="card produk-card h-100">
    
    <div class="card-body d-flex flex-column">
      <div class="produk-title">Hijab Batik Semi Sutra Violet Harmony Bloom</div>
      <div class="mt-2 mb-3"><div class="price">Rp89.999</div></div>
      <div class="mt-auto d-flex gap-2">
        <button class="btn btn-beli w-100"
          data-name="Hijab Batik Semi Sutra Violet Harmony Bloom">BELI</button>
      </div>
    </div>
  </div>
</div>

```

```

        data-price="89999"
        data-img="Image/produk6.jpg">BELI</button>
    </div>
    </div>
    </div>
</div>

<!-- Product 7 (Kemeja Batik) -->
<div class="col-6 col-md-4 col-lg-3">
    <div class="card produk-card h-100">
        
        <div class="card-body d-flex flex-column">
            <div class="produk-title">Kemeja Batik Pria Lengan Panjang Parang</div>
            <div class="mt-2 mb-3"><div class="price">Rp199.999</div></div>
            <div class="mt-auto d-flex gap-2">
                <button class="btn btn-beli w-100"
                    data-name="Kemeja Batik Pria Lengan Panjang Parang"
                    data-price="199999"
                    data-img="Image/produk7.jpg">BELI</button>
            </div>
        </div>
    </div>
</div>
</div>
</div>

<!-- Product 8 (Dress) -->
<div class="col-6 col-md-4 col-lg-3">
    <div class="card produk-card h-100">
        
        <div class="card-body d-flex flex-column">
            <div class="produk-title">Dress Batik Wanita Klasik Megamendung</div>
            <div class="mt-2 mb-3"><div class="price">Rp249.999</div></div>
            <div class="mt-auto d-flex gap-2">
                <button class="btn btn-beli w-100"
                    data-name="Dress Batik Wanita Klasik Megamendung"
                    data-price="249999"
                    data-img="Image/produk8.jpg">BELI</button>
            </div>
        </div>
    </div>
</div>
</div>
</div>

<!-- Product 9 (Tas) -->
<div class="col-6 col-md-4 col-lg-3">
    <div class="card produk-card h-100">

```

```


<div class="card-body d-flex flex-column">
<div class="produk-title">Tas Selempang Kanvas Motif Kawung</div>
<div class="mt-2 mb-3"><div class="price">Rp449.999</div></div>
<div class="mt-auto d-flex gap-2">
<button class="btn btn-beli w-100"
data-name="Tas Selempang Kanvas Motif Kawung"
data-price="449999"
data-img="Image/produk9.jpg">BELI</button>
</div>
</div>
</div>
</div>

</div> <!-- /row -->
</main>

<!-- FOOTER -->
<footer>
<div class="container py-5">
<div class="row gy-4">
<div class="col-md-4">
<h5>About</h5>
<p style="max-width:320px;">Batik Nusantara — koleksi batik & hijab berkualitas, desain tradisi yang dibawa modern untuk penampilan sehari-hari.</p>
<p class="mb-0"><small>Opening hours: Mon - Sat, 08:00 - 17:00</small></p>
</div>

<div class="col-md-4">
<h5>Kontak</h5>
<p class="mb-1">Email: <a href="mailto:batiknusantara@gmail.com" style="color:#fff;">batiknusantara@gmail.com</a></p>
<p class="mb-1">WA: <a href="https://wa.me/628123456789" style="color:#fff;">08123456789</a></p>
<p class="mb-0">Alamat: Jl. Batik No.10, Kota Purwokerto</p>
</div>

<div class="col-md-4">
<h5>Ikuti Kami</h5>
<p class="mb-2">Dapatkan promo & update lewat sosial media:</p>
<a class="btn btn-sm btn-outline-light me-2" href="#" role="button">Facebook</a>
<a class="btn btn-sm btn-outline-light me-2" href="#" role="button">Instagram</a>
<a class="btn btn-sm btn-outline-light" href="#" role="button">Twitter</a>

```

```

        </div>
    </div>
</div>
<div class="footer-bottom text-center py-3">
    <div class="container">
        <small>© 2025 Batik Nusantara | Pemrograman Web - Rifqi Ramdani |<br/>
        Semua Hak Dilindungi.</small>
    </div>
</div>
</footer>

<div class="modal fade" id="modalBeli" tabindex="-1" aria-
labelledby="modalBeliLabel" aria-hidden="true">
    <div class="modal-dialog modal-dialog-centered">
        <div class="modal-content">
            <div class="modal-header" style="background: linear-gradient(90deg,var(-
            purple-500),var(--accent)); color:#fff;">
                <h5 class="modal-title" id="modalBeliLabel">Tambah ke<br/>
                Keranjang</h5>
                <button type="button" class="btn-close btn-close-white" data-bs-
                dismiss="modal" aria-label="Close"></button>
            </div>
            <div class="modal-body">
                <div class="d-flex gap-3">
                    
                    <div>
                        <h6 id="modalProductName" class="mb-1">Nama Produk</h6>
                        <div id="modalProductPrice" class="text-muted mb-2">Rp0</div>
                        <p class="small text-muted mb-0">Pastikan produk yang akan Anda<br/>
                        beli sudah benar. Klik "Tambah ke Keranjang" untuk melanjutkan.</p>
                    </div>
                </div>
                <hr>
                <div class="mb-2">
                    <label for="qty" class="form-label">Jumlah</label>
                    <input id="qty" type="number" min="1" value="1" class="form-
                    control" />
                </div>
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-secondary" data-bs-
                dismiss="modal">Batal</button>
                <button type="button" id="confirmAddBtn" class="btn btn-
                beli">Tambah ke Keranjang</button>
            </div>
        </div>
    </div>
</div>
</div>

```

```

<div class="position-fixed bottom-0 end-0 p-3" style="z-index:12000;">
  <div id="toastCart" class="toast align-items-center text-bg-dark border-0" role="alert" aria-live="assertive" aria-atomic="true">
    <div class="d-flex">
      <div class="toast-body">Produk ditambahkan ke keranjang.</div>
      <button type="button" class="btn-close btn-close-white me-2 m-auto" data-bs-dismiss="toast" aria-label="Close"></button>
    </div>
  </div>
</div>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>

<script>
function formatRupiah(number) {
  if (isNaN(number)) return 'Rp0';
  return 'Rp' + number.toString().replace(/\B(?=(\d{3})+(?!d))/g, ',');
}

const CART_KEY = 'batik_cart_v1';

function loadCart() {
  try {
    const raw = localStorage.getItem(CART_KEY);
    if (!raw) return [];
    return JSON.parse(raw);
  } catch (e) {
    console.error('Error parsing cart from localStorage', e);
    return [];
  }
}

function saveCart(cart) {
  localStorage.setItem(CART_KEY, JSON.stringify(cart));
  updateCartBadge();
}

function updateCartBadge() {
  const cart = loadCart();
  const totalItems = cart.reduce((sum, item) => sum + (item.qty || 0), 0);
  const badge = document.getElementById('cartCount');
  if (badge) badge.textContent = totalItems;
}

function addToCart(product) {
  const cart = loadCart();
  // find existing item (same name + price)

```

```

const idx = cart.findIndex(it => it.name === product.name && it.price ===
product.price && it.img === product.img);
if (idx > -1) {
  cart[idx].qty = (cart[idx].qty || 0) + product.qty;
} else {
  cart.push(product);
}
saveCart(cart);
}

// ----- DOM & modal logic -----
(function(){
  const modalEl = document.getElementById('modalBeli');
  const modal = new bootstrap.Modal(modalEl);
  const modalProductName =
document.getElementById('modalProductName');
  const modalProductPrice =
document.getElementById('modalProductPrice');
  const modalProductImg = document.getElementById('modalProductImg');
  const qtyInput = document.getElementById('qty');
  const confirmAddBtn = document.getElementById('confirmAddBtn');
  const toastEl = document.getElementById('toastCart');
  const toast = new bootstrap.Toast(toastEl, { delay: 2500 });

  // Initialize badge on page load
  updateCartBadge();

  // When a BUY button is clicked, show modal with details
  document.querySelectorAll('.btn-beli').forEach(btn => {
    btn.addEventListener('click', function(){
      const name = this.dataset.name || 'Produk';
      const price = Number(this.dataset.price) || 0;
      const img = this.dataset.img || 'Image/produk1.jpg';
      modalProductImg.src = img;
      modalProductName.textContent = name;
      modalProductPrice.textContent = formatRupiah(price);
      qtyInput.value = 1;
      // store current product data on confirm button for later
      confirmAddBtn.dataset.name = name;
      confirmAddBtn.dataset.price = price;
      confirmAddBtn.dataset.img = img;
      modal.show();
    });
  });

  // Confirm add to cart from modal
  confirmAddBtn.addEventListener('click', function(){
    const name = this.dataset.name;
    const price = Number(this.dataset.price) || 0;

```

```

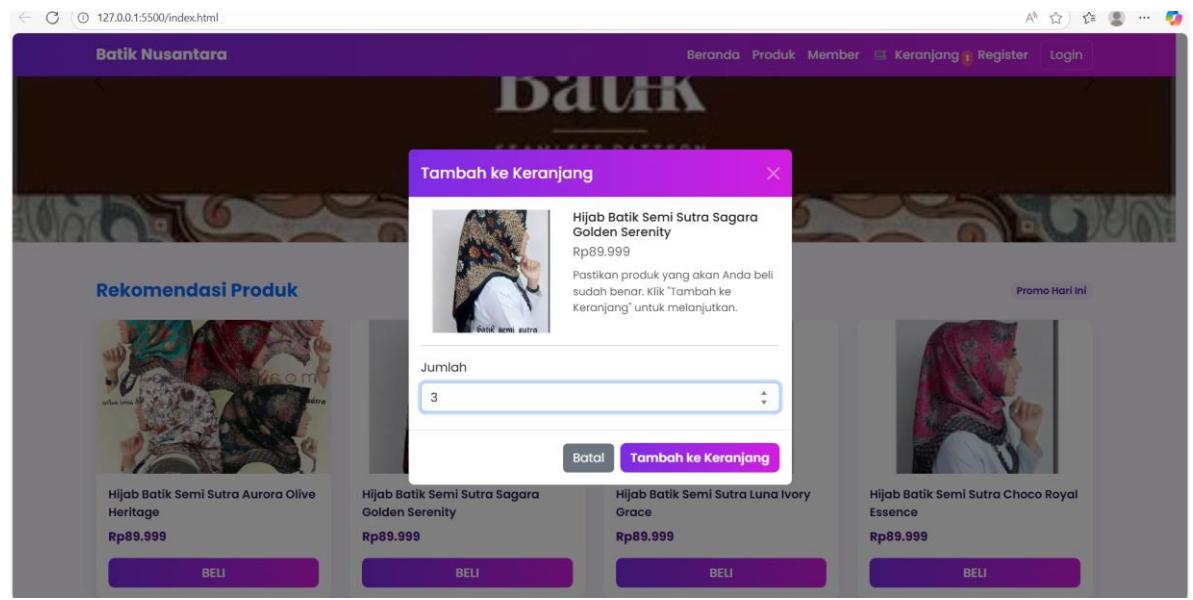
const img = this.dataset.img;
const qty = Math.max(1, Number(qtyInput.value || 1));
const product = {
  name: name,
  price: price,
  img: img,
  qty: qty
};
addToCart(product);
modal.hide();
// show toast with message
toastEl.querySelector('.toast-body').textContent = `${qty} × ${name}`
berhasil ditambahkan ke keranjang.';
toast.show();
});

// Accessibility: focus back to first buy button after modal closes
modalEl.addEventListener('hidden.bs.modal', function () {
  const firstBtn = document.querySelector('.btn-beli');
  if (firstBtn) firstBtn.focus();
});

// Optional: when clicking cart link, navigate to keranjang.html (existing
page)
const cartLink = document.getElementById('cartLink');
if (cartLink) {
  cartLink.addEventListener('click', function(e){
    // default behavior is to navigate to keranjang.html via href
    // no extra action needed, but we can update badge right before leaving
    updateCartBadge();
  });
}
})());
</script>
</body>
</html>

```

Output:



Penjelasan:

Tentu, berikut ringkasan yang lebih singkat:

Halaman web Batik Nusantara adalah beranda e-commerce batik yang dibangun dengan HTML, CSS, dan Bootstrap 5.3, menggunakan palet warna ungu yang modern. Fitur utamanya mencakup navbar responsif dengan *badge* keranjang belanja dinamis, carousel untuk banner promosi, dan bagian Rekomendasi Produk. Setiap produk dilengkapi tombol "BELI" yang memicu Modal Bootstrap. JavaScript mengelola fungsionalitas keranjang belanja dengan menyimpan data ke localStorage, memperbarui *badge* keranjang secara *real-time*, dan menampilkan Toast konfirmasi setelah produk berhasil ditambahkan. Desain ini menggabungkan tampilan modern dengan fungsi inti toko *online*, diakhiri dengan *footer* informatif.

BAB III

PENUTUP

A. Kesimpulan

Teori dasar kode ini adalah pemisahan tanggung jawab (HTML untuk struktur, CSS untuk presentasi, dan JavaScript untuk interaksi/fungsionalitas) dalam pengembangan web modern. Tujuannya adalah membangun beranda e-commerce yang fungsional dan responsif untuk: 1) Menampilkan produk, 2) Memungkinkan penambahan item ke keranjang, dan 3) Mempertahankan data keranjang secara lokal menggunakan localStorage.