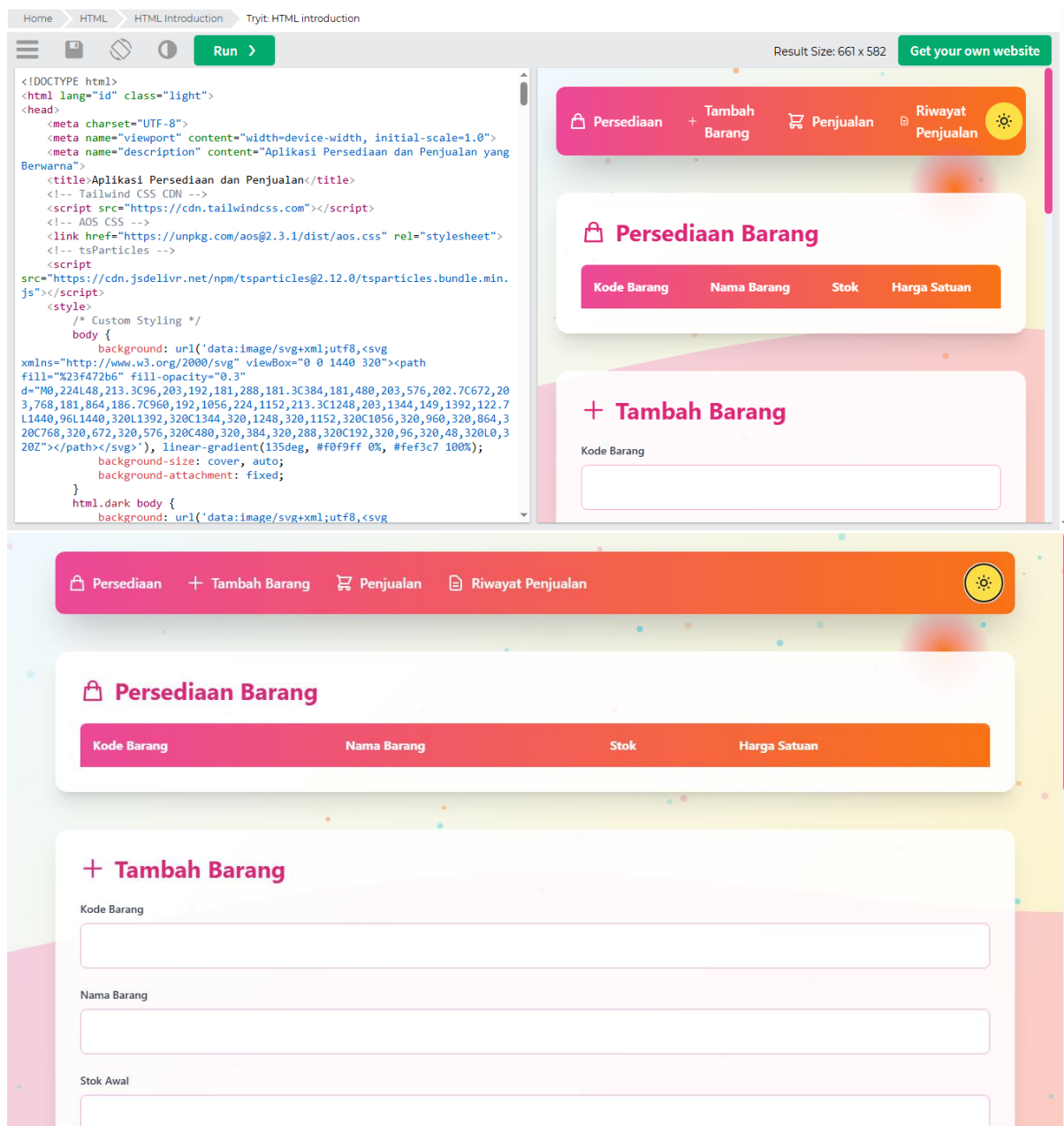


TUGAS HTML (Aplikasi Persediaan dan Penjualan)

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Mata Kuliah : Pengkodean dan Pemrograman
Kelas : D

1. Tampilan W3Schools



2. Kode HTML

```
<!DOCTYPE html>
```

```

<html lang="id" class="light">

<head>

  <meta charset="UTF-8">

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

  <meta name="description" content="Aplikasi Persediaan dan Penjualan yang Berwarna">

  <title>Aplikasi Persediaan dan Penjualan</title>

  <!-- Tailwind CSS CDN -->

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

  <!-- AOS CSS -->

  <link href="https://unpkg.com/aos@2.3.1/dist/aos.css" rel="stylesheet">

  <!-- tsParticles -->

  <script src="https://cdn.jsdelivr.net/npm/tsparticles@2.12.0/tsparticles.bundle.min.js"></script>

  <style>

    /* Custom Styling */

    body {

      background: url('data:image/svg+xml;utf8,<svg xmlns="http://www.w3.org/2000/svg"
viewBox="0 0 1440 320"><path fill="%23f472b6" fill-opacity="0.3"
d="M0,224L48,213.3C96,203,192,181,288,181.3C384,181,480,203,576,202.7C672,203,768,181,864,
186.7C960,192,1056,224,1152,213.3C1248,203,1344,149,1392,122.7L1440,96L1440,320L1392,320C
1344,320,1248,320,1152,320C1056,320,960,320,864,320C768,320,672,320,576,320C480,320,384,3
20,288,320C192,320,96,320,48,320L0,320Z"></path></svg>'), linear-gradient(135deg, #f0f9ff 0%,
#fef3c7 100%);

      background-size: cover, auto;

      background-attachment: fixed;

    }

    html.dark body {

      background: url('data:image/svg+xml;utf8,<svg xmlns="http://www.w3.org/2000/svg"
viewBox="0 0 1440 320"><path fill="%23a855f7" fill-opacity="0.3"
d="M0,224L48,213.3C96,203,192,181,288,181.3C384,181,480,203,576,202.7C672,203,768,181,864,
186.7C960,192,1056,224,1152,213.3C1248,203,1344,149,1392,122.7L1440,96L1440,320L1392,320C
1344,320,1248,320,1152,320C1056,320,960,320,864,320C768,320,672,320,576,320C480,320,384,3
20,288,320C192,320,96,320,48,320L0,320Z"></path></svg>'), linear-gradient(135deg, #1e293b 0%,
#3b0764 100%);

      background-size: cover, auto;

      background-attachment: fixed;

    }

  </style>

```

```

}

.card {
    transition: transform 0.3s ease, box-shadow 0.3s ease;
    background: rgba(255, 255, 255, 0.9);
}

html.dark .card {
    background: rgba(31, 41, 55, 0.9);
}

.card:hover {
    transform: scale(1.02);
    box-shadow: 0 15px 30px rgba(0, 0, 0, 0.2);
}

.btn-glow {
    background: linear-gradient(45deg, #ec4899, #f97316);
    box-shadow: 0 0 15px rgba(236, 72, 153, 0.5);
}

.btn-glow:hover {
    box-shadow: 0 0 25px rgba(236, 72, 153, 0.7);
}

html.dark .btn-glow {
    background: linear-gradient(45deg, #a855f7, #22d3ee);
    box-shadow: 0 0 15px rgba(168, 85, 247, 0.5);
}

html.dark .btn-glow:hover {
    box-shadow: 0 0 25px rgba(168, 85, 247, 0.7);
}

/* Scrollbar */
::-webkit-scrollbar {
    width: 10px;
}

::-webkit-scrollbar-track {

```

```

        background: #f1f5f9;
    }
    ::-webkit-scrollbar-thumb {
        background: #ec4899;
        border-radius: 5px;
    }
    html.dark ::-webkit-scrollbar-track {
        background: #1e293b;
    }
    html.dark ::-webkit-scrollbar-thumb {
        background: #a855f7;
    }
    /* Particle Container */
    #tsparticles {
        position: fixed;
        top: 0;
        left: 0;
        width: 100%;
        height: 100%;
        z-index: -1;
    }
</style>
</head>
<body class="min-h-screen text-gray-900 transition-colors duration-300">
    <!-- Particle Background -->
    <div id="tsparticles"></div>

    <div class="container mx-auto p-6 max-w-7xl relative z-10">
        <!-- Navbar -->

        <nav class="bg-gradient-to-r from-pink-500 to-orange-500 dark:from-purple-600 dark:to-cyan-500 text-white p-4 rounded-xl shadow-2xl flex justify-between items-center" data-aos="zoom-in">

```

```

<div class="flex space-x-8">

  <a href="#inventory" class="hover:text-yellow-200 transition-colors flex items-center
space-x-2 text-lg font-semibold">

    <svg class="w-6 h-6" fill="none" stroke="currentColor" viewBox="0 0 24 24"
xmlns="http://www.w3.org/2000/svg"><path stroke-linecap="round" stroke-linejoin="round"
stroke-width="2" d="M16 11V7a4 4 0 00-8 0v4M5 9h14l1 12H4L5 9z"></path></svg>

    <span>Persediaan</span>

  </a>

  <a href="#add-item" class="hover:text-yellow-200 transition-colors flex items-center space-
x-2 text-lg font-semibold">

    <svg class="w-6 h-6" fill="none" stroke="currentColor" viewBox="0 0 24 24"
xmlns="http://www.w3.org/2000/svg"><path stroke-linecap="round" stroke-linejoin="round"
stroke-width="2" d="M12 4v16m8-8H4"></path></svg>

    <span>Tambah Barang</span>

  </a>

  <a href="#sales" class="hover:text-yellow-200 transition-colors flex items-center space-x-2
text-lg font-semibold">

    <svg class="w-6 h-6" fill="none" stroke="currentColor" viewBox="0 0 24 24"
xmlns="http://www.w3.org/2000/svg"><path stroke-linecap="round" stroke-linejoin="round"
stroke-width="2" d="M3 3h2l.4 2M7 13h10l4-8H5.4M7 13L5.4 5M7 13l-2.293 2.293c-.63.63-.184
1.707.707 1.707H17m0 0a2 2 0 100 4 2 2 0 000-4zm-8 2a2 2 0 11-4 0 2 2 0 014 0z"></path></svg>

    <span>Penjualan</span>

  </a>

  <a href="#sales-history" class="hover:text-yellow-200 transition-colors flex items-center
space-x-2 text-lg font-semibold">

    <svg class="w-6 h-6" fill="none" stroke="currentColor" viewBox="0 0 24 24"
xmlns="http://www.w3.org/2000/svg"><path stroke-linecap="round" stroke-linejoin="round"
stroke-width="2" d="M9 12h6m-6 4h6m2 5H7a2 2 0 01-2-2V5a2 2 0 012-2h5.586a1 1 0
01.707.293l5.414 5.414a1 1 0 01.293.707V19a2 2 0 01-2 2z"></path></svg>

    <span>Riwayat Penjualan</span>

  </a>

</div>

<!-- Dark Mode Toggle -->

<button id="themeToggle" class="p-3 rounded-full bg-yellow-300 dark:bg-cyan-300 text-gray-
900 dark:text-gray-900 hover:scale-110 transition-transform">

  <svg class="w-6 h-6" fill="none" stroke="currentColor" viewBox="0 0 24 24"
xmlns="http://www.w3.org/2000/svg"><path stroke-linecap="round" stroke-linejoin="round"

```

```
stroke-width="2" d="M12 3v1m0 16v1m9-9h-1M4 12H3m15.364 6.364l-.707-.707M6.343 6.343l-.707-.707m12.728 0l-.707.707M6.343 17.657l-.707.707M16 12a4 4 0 11-8 0 4 4 0 018 0z"></path></svg>
```

```
</button>
```

```
</nav>
```

```
<!-- Decorative SVG -->
```

```
<div class="absolute top-20 right-10 opacity-30 z-0" data-aos="fade-left">
```

```
<svg width="150" height="150" viewBox="0 0 200 200" fill="none"
xmlns="http://www.w3.org/2000/svg">
```

```
<circle cx="100" cy="100" r="80" fill="url(#paint0_radial)" />
```

```
<defs>
```

```
<radialGradient id="paint0_radial" cx="0" cy="0" r="1" gradientUnits="userSpaceOnUse"
gradientTransform="translate(100 100) scale(80)">
```

```
<stop stop-color="#f97316" />
```

```
<stop offset="1" stop-color="#ec4899" stop-opacity="0" />
```

```
</radialGradient>
```

```
</defs>
```

```
</svg>
```

```
</div>
```

```
<!-- Persediaan -->
```

```
<section id="inventory" class="mt-12 relative z-10" data-aos="fade-up">
```

```
<div class="card p-8 rounded-2xl shadow-xl">
```

```
<h2 class="text-3xl font-bold text-pink-600 dark:text-purple-400 mb-6 flex items-center">
```

```
<svg class="w-8 h-8 mr-3" fill="none" stroke="currentColor" viewBox="0 0 24 24"
xmlns="http://www.w3.org/2000/svg"><path stroke-linecap="round" stroke-linejoin="round"
stroke-width="2" d="M16 11V7a4 4 0 00-8 0v4M5 9h14l1 12H4L5 9z"></path></svg>
```

Persediaan Barang

```
</h2>
```

```
<div class="overflow-x-auto">
```

```
<table id="inventoryTable" class="w-full text-left">
```

```
<thead class="bg-gradient-to-r from-pink-500 to-orange-500 dark:from-purple-600
dark:to-cyan-500 text-white">
```

```
<tr>
```

```
<th class="p-4 rounded-tl-lg">Kode Barang</th>
```

```
<th class="p-4">Nama Barang</th>
```

```
<th class="p-4">Stok</th>
```

```
<th class="p-4 rounded-tr-lg">Harga Satuan</th>
```

```
</tr>
```

```
</thead>
```

```
<tbody class="text-gray-900 dark:text-gray-100"></tbody>
```

```
</table>
```

```
</div>
```

```
</div>
```

```
</section>
```

```
<!-- Tambah Barang -->
```

```
<section id="add-item" class="mt-12 relative z-10" data-aos="fade-up" data-aos-delay="100">
```

```
<div class="card p-8 rounded-2xl shadow-xl">
```

```
<h2 class="text-3xl font-bold text-pink-600 dark:text-purple-400 mb-6 flex items-center">
```

```
<svg class="w-8 h-8 mr-3" fill="none" stroke="currentColor" viewBox="0 0 24 24"
xmlns="http://www.w3.org/2000/svg"><path stroke-linecap="round" stroke-linejoin="round"
stroke-width="2" d="M12 4v16m8-8H4"></path></svg>
```

```
Tambah Barang
```

```
</h2>
```

```
<form id="addItemForm" class="space-y-6">
```

```
<div>
```

```
<label for="itemCode" class="block text-sm font-medium text-gray-700 dark:text-gray-
300">Kode Barang</label>
```

```
<input type="text" id="itemCode" class="mt-2 w-full p-4 border border-pink-300
dark:border-purple-500 rounded-lg focus:ring-4 focus:ring-pink-200 dark:focus:ring-purple-300
dark:bg-gray-800 dark:text-gray-200 transition-all" required>
```

```
</div>
```

```
<div>
```

```
<label for="itemName" class="block text-sm font-medium text-gray-700 dark:text-gray-300">Nama Barang</label>
```

```
<input type="text" id="itemName" class="mt-2 w-full p-4 border border-pink-300 dark:border-purple-500 rounded-lg focus:ring-4 focus:ring-pink-200 dark:focus:ring-purple-300 dark:bg-gray-800 dark:text-gray-200 transition-all" required>
```

```
</div>
```

```
<div>
```

```
<label for="itemStock" class="block text-sm font-medium text-gray-700 dark:text-gray-300">Stok Awal</label>
```

```
<input type="number" id="itemStock" min="0" class="mt-2 w-full p-4 border border-pink-300 dark:border-purple-500 rounded-lg focus:ring-4 focus:ring-pink-200 dark:focus:ring-purple-300 dark:bg-gray-800 dark:text-gray-200 transition-all" required>
```

```
</div>
```

```
<div>
```

```
<label for="itemPrice" class="block text-sm font-medium text-gray-700 dark:text-gray-300">Harga Satuan (Rp)</label>
```

```
<input type="number" id="itemPrice" min="0" class="mt-2 w-full p-4 border border-pink-300 dark:border-purple-500 rounded-lg focus:ring-4 focus:ring-pink-200 dark:focus:ring-purple-300 dark:bg-gray-800 dark:text-gray-200 transition-all" required>
```

```
</div>
```

```
<button type="submit" class="w-full btn-glow text-white p-4 rounded-lg text-lg font-semibold transition-transform hover:scale-105">Tambah Barang</button>
```

```
</form>
```

```
<div id="addItemMessage" class="mt-6 p-4 rounded-lg hidden"></div>
```

```
</div>
```

```
</section>
```

```
<!-- Penjualan -->
```

```
<section id="sales" class="mt-12 relative z-10" data-aos="fade-up" data-aos-delay="200">
```

```
<div class="card p-8 rounded-2xl shadow-xl">
```

```
<h2 class="text-3xl font-bold text-pink-600 dark:text-purple-400 mb-6 flex items-center">
```

```
<svg class="w-8 h-8 mr-3" fill="none" stroke="currentColor" viewBox="0 0 24 24"
xmlns="http://www.w3.org/2000/svg"><path stroke-linecap="round" stroke-linejoin="round"
stroke-width="2" d="M3 3h2l.4 2M7 13h10l4-8H5.4M7 13L5.4 5M7 13l-2.293 2.293c-.63.63-.184
1.707.707 1.707H17m0 0a2 2 0 100 4 2 2 0 000-4zm-8 2a2 2 0 11-4 0 2 2 0 014 0z"></path></svg>
```

Form Penjualan

</h2>

<form id="salesForm" class="space-y-6">

<div>

<label for="itemSelect" class="block text-sm font-medium text-gray-700 dark:text-gray-300">Pilih Barang</label>

<select id="itemSelect" class="mt-2 w-full p-4 border border-pink-300 dark:border-purple-500 rounded-lg focus:ring-4 focus:ring-pink-200 dark:focus:ring-purple-300 dark:bg-gray-800 dark:text-gray-200 transition-all" required>

<option value="" disabled selected>Pilih Barang</option>

</select>

</div>

<div>

<label for="quantity" class="block text-sm font-medium text-gray-700 dark:text-gray-300">Jumlah</label>

<input type="number" id="quantity" min="1" class="mt-2 w-full p-4 border border-pink-300 dark:border-purple-500 rounded-lg focus:ring-4 focus:ring-pink-200 dark:focus:ring-purple-300 dark:bg-gray-800 dark:text-gray-200 transition-all" required>

</div>

<button type="submit" class="w-full btn-glow text-white p-4 rounded-lg text-lg font-semibold transition-transform hover:scale-105">Proses Penjualan</button>

</form>

<div id="salesMessage" class="mt-6 p-4 rounded-lg hidden"></div>

</div>

</section>

<!-- Riwayat Penjualan -->

<section id="sales-history" class="mt-12 relative z-10" data-aos="fade-up" data-aos-delay="300">

<div class="card p-8 rounded-2xl shadow-xl">

<h2 class="text-3xl font-bold text-pink-600 dark:text-purple-400 mb-6 flex items-center">

<svg class="w-8 h-8 mr-3" fill="none" stroke="currentColor" viewBox="0 0 24 24" xmlns="http://www.w3.org/2000/svg"><path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M9 12h6m-6 4h6m2 5H7a2 2 0 0 1-2-2V5a2 2 0 0 1-2-2h5.586a1 1 0 0 1.707.293l5.414 5.414a1 1 0 0 1.293.707V19a2 2 0 0 1-2 2z"></path></svg>

Riwayat Penjualan

```
</h2>

<div class="overflow-x-auto">

  <table id="salesHistoryTable" class="w-full text-left">

    <thead class="bg-gradient-to-r from-pink-500 to-orange-500 dark:from-purple-600
dark:to-cyan-500 text-white">

      <tr>

        <th class="p-4 rounded-tl-lg">Tanggal</th>

        <th class="p-4">Kode Barang</th>

        <th class="p-4">Nama Barang</th>

        <th class="p-4">Jumlah</th>

        <th class="p-4 rounded-tr-lg">Total Harga</th>

      </tr>

    </thead>

    <tbody class="text-gray-900 dark:text-gray-100"></tbody>

  </table>

</div>

</div>

</section>

</div>
```

```
<!-- AOS JS -->
```

```
<script src="https://unpkg.com/aos@2.3.1/dist/aos.js"></script>
```

```
<script>
```

```
  // Initialize AOS
```

```
  AOS.init({
```

```
    duration: 1000,
```

```
    easing: 'ease-in-out',
```

```
    once: false,
```

```
  });
```

```
  // Initialize tsParticles
```

```

tsParticles.load("tsparticles", {
  particles: {
    number: { value: 80, density: { enable: true, value_area: 800 } },
    color: { value: ["#ec4899", "#f97316", "#22d3ee"] },
    shape: { type: "circle" },
    opacity: { value: 0.5, random: true },
    size: { value: 5, random: true },
    move: { enable: true, speed: 2, direction: "none", random: true, out_mode: "out" },
  },
  interactivity: {
    events: {
      onhover: { enable: true, mode: "repulse" },
      onclick: { enable: true, mode: "push" },
    },
    modes: {
      repulse: { distance: 100, duration: 0.4 },
      push: { quantity: 4 },
    },
  },
  retina_detect: true,
});

```

```

/**

```

```

 * Inventory and Sales Application

```

```

 * Author: Grok (Generated for xAI)

```

```

 * Version: 1.0

```

```

 * Features: Manage inventory, add items, process sales, view sales history

```

```

 */

```

```

class InventoryManager {

```

```

  constructor() {

```

```

    this.inventory = JSON.parse(localStorage.getItem('inventory')) || {};
    this.salesHistory = JSON.parse(localStorage.getItem('salesHistory')) || [];
    this.initializeEventListeners();
    this.renderInventory();
    this.renderItemSelect();
    this.renderSalesHistory();
  }

```

```

  initializeEventListeners() {
    document.getElementById('addItemForm').addEventListener('submit', (e) =>
this.handleAddItem(e));

    document.getElementById('salesForm').addEventListener('submit', (e) =>
this.handleSale(e));
  }

```

```

  handleAddItem(e) {
    e.preventDefault();
    const code = document.getElementById('itemCode').value.trim();
    const name = document.getElementById('itemName').value.trim();
    const stock = parseInt(document.getElementById('itemStock').value);
    const price = parseInt(document.getElementById('itemPrice').value);
    const messageDiv = document.getElementById('addItemMessage');

    if (this.inventory[code]) {
      this.showMessage(messageDiv, 'error', 'Kode barang sudah ada!');
      return;
    }

```

```

    this.inventory[code] = { name, stock, price };
    this.saveInventory();
    this.renderInventory();
    this.renderItemSelect();

```

```

        this.showMessage(messageDiv, 'success', 'Barang berhasil ditambahkan!');

        e.target.reset();
    }

    handleSale(e) {
        e.preventDefault();

        const itemCode = document.getElementById('itemSelect').value;
        const quantity = parseInt(document.getElementById('quantity').value);
        const messageDiv = document.getElementById('salesMessage');

        if (!this.inventory[itemCode]) {
            this.showMessage(messageDiv, 'error', 'Barang tidak ditemukan!');
            return;
        }

        if (this.inventory[itemCode].stock < quantity) {
            this.showMessage(messageDiv, 'error', `Stok ${this.inventory[itemCode].name} tidak
cukup!`);
            return;
        }

        this.inventory[itemCode].stock -= quantity;
        const total = quantity * this.inventory[itemCode].price;
        const sale = {
            date: new Date().toLocaleString('id-ID'),
            code: itemCode,
            name: this.inventory[itemCode].name,
            quantity,
            total
        };
    }

```

```

    this.salesHistory.push(sale);

    this.saveInventory();

    this.saveSalesHistory();

    this.renderInventory();

    this.renderSalesHistory();

    this.showMessage(messageDiv, 'success', `Penjualan berhasil! ${quantity}
    ${this.inventory[itemCode].name} - Total: Rp ${total.toLocaleString('id-ID')}`);

    e.target.reset();
}

```

```

renderInventory() {
    const tbody = document.querySelector('#inventoryTable tbody');

    tbody.innerHTML = "";

    for (const [code, item] of Object.entries(this.inventory)) {
        const row = document.createElement('tr');

        row.className = 'hover:bg-pink-100 dark:hover:bg-purple-800 transition-colors';

        row.innerHTML = `
            <td class="p-4">${code}</td>
            <td class="p-4">${item.name}</td>
            <td class="p-4">${item.stock}</td>
            <td class="p-4">Rp ${item.price.toLocaleString('id-ID')}</td>
        `;

        tbody.appendChild(row);
    }
}

```

```

renderItemSelect() {
    const select = document.getElementById('itemSelect');

    select.innerHTML = '<option value="" disabled selected>Pilih Barang</option>';

    for (const [code, item] of Object.entries(this.inventory)) {
        const option = document.createElement('option');
    }
}

```

```

        option.value = code;

        option.textContent = `${item.name} - Rp ${item.price.toLocaleString('id-ID')}`;

        select.appendChild(option);
    }
}

renderSalesHistory() {
    const tbody = document.querySelector('#salesHistoryTable tbody');

    tbody.innerHTML = "";

    this.salesHistory.forEach(sale => {
        const row = document.createElement('tr');

        row.className = 'hover:bg-pink-100 dark:hover:bg-purple-800 transition-colors';

        row.innerHTML = `
            <td class="p-4">${sale.date}</td>
            <td class="p-4">${sale.code}</td>
            <td class="p-4">${sale.name}</td>
            <td class="p-4">${sale.quantity}</td>
            <td class="p-4">Rp ${sale.total.toLocaleString('id-ID')}</td>
        `;

        tbody.appendChild(row);
    });
}

saveInventory() {
    localStorage.setItem('inventory', JSON.stringify(this.inventory));
}

saveSalesHistory() {
    localStorage.setItem('salesHistory', JSON.stringify(this.salesHistory));
}

```

```

    showMessage(element, type, text) {
        element.className = `mt-6 p-4 rounded-lg ${type === 'success' ? 'bg-green-500 text-white'
: 'bg-red-500 text-white'} animate-bounce`;

        element.textContent = text;

        element.classList.remove('hidden');

        setTimeout(() => {
            element.classList.add('hidden');
        }, 3000);
    }
}

```

```

// Initialize application
document.addEventListener('DOMContentLoaded', () => {
    new InventoryManager();

    // Dark Mode Toggle
    const themeToggle = document.getElementById('themeToggle');
    themeToggle.addEventListener('click', () => {
        document.documentElement.classList.toggle('dark');

        localStorage.setItem('theme', document.documentElement.classList.contains('dark') ?
'dark' : 'light');

        // Update particle colors
        tsParticles.load("tsparticles", {
            particles: {
                number: { value: 80, density: { enable: true, value_area: 800 } },
                color: { value: document.documentElement.classList.contains('dark') ? ["#a855f7",
"#22d3ee", "#f472b6"] : ["#ec4899", "#f97316", "#22d3ee"] },
                shape: { type: "circle" },
                opacity: { value: 0.5, random: true },
                size: { value: 5, random: true },
                move: { enable: true, speed: 2, direction: "none", random: true, out_mode: "out" },
            },

```



```
interactivity: {  
  events: {  
    onhover: { enable: true, mode: "repulse" },  
    onclick: { enable: true, mode: "push" },  
  },  
  modes: {  
    repulse: { distance: 100, duration: 0.4 },  
    push: { quantity: 4 },  
  },  
},  
retina_detect: true,  
});  
});  
  
// Load saved theme  
if (localStorage.getItem('theme') === 'dark') {  
  document.documentElement.classList.add('dark');  
}  
});  
</script>  
</body>  
</html>
```