

Case Study: Supermarket E-commerce Website

1. Project Overview

This project is a **multi-page e-commerce website** for a supermarket.

It will showcase various products, allow customers to browse by pages, view product details, register an account, log in, and add items to their cart.

For simplicity, the project will be built using **HTML5, CSS3, and Bootstrap**, without JavaScript for logic.

2. Objective

- To help beginners understand **website folder structure** and organization.
- To teach **multi-page navigation** using HTML.
- To introduce **Bootstrap components** like **navbar, cards, carousel, forms, and pagination**.
- To practice **form creation and validation using HTML5 attributes**.

3. Key Features

1. Home Page

- Supermarket branding and a **Bootstrap carousel** showcasing offers.
- Featured products section using **Bootstrap cards**.

2. Products Page

- Product listings in a **grid layout** using Bootstrap cards.
- **Pagination** for separating products into multiple pages (page 1, page 2, page 3).

3. Product Detail Page

- A dedicated page for each product (optional for beginners).
- Larger image, price, description, and “Add to Cart” button.

4. Registration Page

- User sign-up form with **HTML5 validation**.
- Fields: Name, Email, Password, Confirm Password, Address.

5. Login Page

- Simple login form for existing users.

6. Contact Page

- Contact form with fields for Name, Email, and Message.

7. Navigation Bar

- Links to **Home**, **Products**, **Register**, **Login**, and **Contact**.

8. Footer

- Store contact info, social media links, and copyright.

4. Technology Used

- **HTML5** → Structure
- **CSS3** → Styling
- **Bootstrap 5** → Layout and components
- **Photos** should be images folder → Placeholder product images

5. Folder Structure

```

supermarket-website/
├── index.html           → Home Page (Carousel + Featured
Products)
├── products.html        → Products Page (Page 1)
├── products-page2.html  → Products Page (Page 2)
├── products-page3.html  → Products Page (Page 3)
├── register.html        → Registration Form
├── login.html           → Login Form
├── contact.html         → Contact Page
├── css/
│   └── style.css        → Custom styles
├── images/
│   ├── logo.png         → Supermarket logo
│   ├── banner1.jpg      → Carousel Image 1
│   ├── banner2.jpg      → Carousel Image 2
│   ├── banner3.jpg      → Carousel Image 3
│   ├── product1.jpg     → Product image examples
│   └── ...              → More product images

```

6. Pages Explanation

index.html (Home Page)

- Navbar (Bootstrap `navbar` component)
- Carousel (Bootstrap `carousel`)
- Featured Products (Bootstrap `card` layout)

products.html / products-page2.html / products-page3.html

- Grid layout with product cards.
- Pagination at the bottom to move between pages.

register.html

- HTML5 form validation using `required`, `pattern`, and `type`.

login.html

- Simple login form (email + password).

contact.html

- Contact form for customers.

7 How Pagination Works Without JS

- Products are split manually into **different HTML files**.
- Page 1 → `products.html`
- Page 2 → `products-page2.html`
- Page 3 → `products-page3.html`
- The pagination links point to these separate files.

Case Study Document

Title

Local Event Management Website

Objective

To design and develop a **responsive, visually appealing, and user-friendly website** for a community event using **HTML5, CSS3, and Bootstrap** without JavaScript. The site should present event details, schedule, activities, media content, and allow users to register.

Implementation Details

1. HTML5 Features Used

- **Semantic Structure:** `<header>`, `<nav>`, `<main>`, `<footer>`
- **Table:** Event schedule with Bootstrap table styles
- **Unordered List:** List of activities
- **Form:** Registration form with required fields and radio/select inputs
- **Media Elements:** `<video>` for promotional video, `<audio>` for theme song
- **Typography:** Headings and paragraphs with Bootstrap typography classes

2. CSS3 Usage

- **External CSS:** `style.css` for site-wide styling
- **Box Model Demonstration:** Border, padding, margin applied in a visible box
- **Custom Styles:** Background color, custom widths, borders

3. Bootstrap Integration

- **Grid System:** Responsive column layout
- **Navbar:** Fully responsive navigation menu
- **Buttons:** Styled using `.btn` classes
- **Typography Classes:** `.text-primary`, `.fw-bold`, `.lead` for text emphasis
- **Table Styling:** `.table`, `.table-striped`, `.table-bordered`, `.table-dark`

File Structure

```
event-website/
├── index.html
├── register.html
├── about.html
├── style.css
├── /assets
│   ├── promo.mp4
│   └── theme.mp3
```