# SVU Day-13 Assignment 27/02/2025

🛒 Full Stack Development Assignment: E-Commerce Cart System 🚉

# \* Assignment Overview

In this assignment, you will create a **simple e-commerce cart system** using **HTML**, **CSS**, and **JavaScript**. The system will display a list of products, allow users to **add products to the cart**, and provide sorting & filtering functionality. The cart data should persist using **Local Storage** to remain even after the page refreshes.

### Project Structure

- index.html → Displays product listing with "Add to Cart" functionality
- cart.html → Displays cart items with purchase functionality

## Task Breakdown

- Page 1: index.html (Product Listing Page)
- 1 Create a list of hardcoded products (at least 10) with the following details:
  - product Name

  - Description
  - Category (e.g., Electronics, Clothing, Books, Accessories)
  - **國 Product Image**
- 2 **Dynamically display products** using **JavaScript forEach()** to loop through the hardcoded data and create product cards.
- 3 Add an "Add to Cart" button for each product:
  - Clicking the button should store the product details in Local Storage with a unique identifier.
  - Show a **notification (alert or toast message)** confirming that the item has been added to the cart.
- 4 Sorting & Filtering Features (Important!):
  - Sort products by Price (Low to High / High to Low)

• Search bar to find products by name

#### **5 Cart Navigation Button:**

- Add a "Go to Cart" button to navigate to cart.html.
- Page 2: cart.html (Shopping Cart Page)
- 1 Retrieve cart data from Local Storage and display it in a table format with:
  - Product Name
  - § Price
  - Category
  - 📓 Image
  - Quantity Selector (+/- buttons)
  - Remove Button

#### 2 Cart Functionalities:

- Users should be able to increase or decrease quantity.
- Users should be able to **remove products from the cart** (and update Local Storage).
- If the cart is empty, display "Your cart is empty! Add some products!".
- 3 Final Purchase Button:
  - When clicked, clear the cart and show a "Thank you for your purchase!" message.
- 4 Back to Products Button:
  - Redirects users to index.html.
- Bonus Features (Optional but Fun!)
- Add a wishlist feature where users can save products for later.
- Show a total cart amount that updates dynamically based on quantity.
- Create a dark mode toggle for better UI experience.
- Use CSS animations to make UI more interactive.
- Implement a rating system where users can rate products.
- \* Key Concepts Covered in This Assignment
- **✓** HTML Structure & Forms
- CSS Styling & Layout
- ✓ JavaScript DOM Manipulation

- ✓ Local Storage for Data Persistence
- ✓ Sorting & Filtering Data
- ✓ Event Handling (Click, Change, etc.)
- ✓ Dynamic Content Rendering using forEach()

Note:- Products data will be shared with you separately.