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Clothes Store Application

Abstract

An e-commerce mobile application for a clothes store that allows users to browse clothing products, view categories, and explore detailed product information through a clean and intuitive interface.
The application is developed using Flutter and focuses on demonstrating core mobile development concepts such as UI construction, navigation between screens, and local state management.
The main goal of the application is to provide a smooth shopping experience while maintaining a simple and organized application flow.

Features

View Products
Users can browse a list of clothing items displayed in a vertically scrollable list.

Product Categories
Clothes are organized into categories such as Men, Women, and Accessories.
View Product Details Users can tap on a product to view details such as image, price, size options, and description.

Add to Cart
Users can add selected items to a shopping cart.

Remove from Cart
Users can remove items from the cart at any time.
Wish list
Users can mark products as favorites for later viewing.

1. Product List Screen

Overview

This screen represents the main entry point of the application. It displays a list of available clothing products in a vertically scrollable layout, allowing users to browse items easily and select any product to view its details.
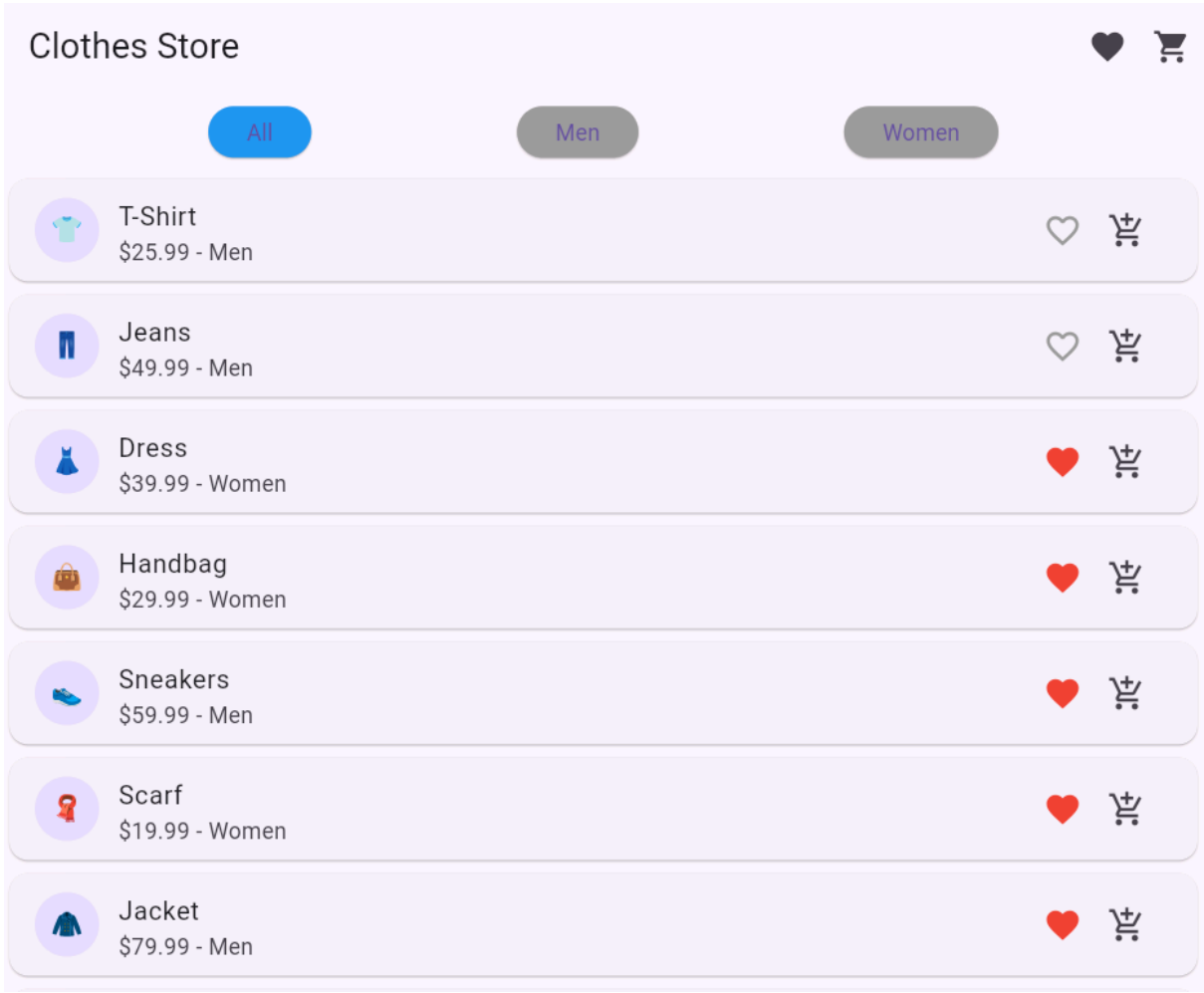
The Variables

The screen uses variables to store product information such as product name, price, image, and category. These variables ensure that each product is displayed correctly and that the data is passed smoothly between different screens.

The Classes

The screen is structured using Flutter widget classes that separate the user interface from the data logic.This structure improves code readability and makes the application easier to maintain and extend.

The Functions

The main functions handle user interaction, such as detecting product selection and navigating to the product details screen.

- ## Product Details Screen

Overview
This screen displays detailed information about a selected clothing item. It helps users understand the product better before making a purchase decision.
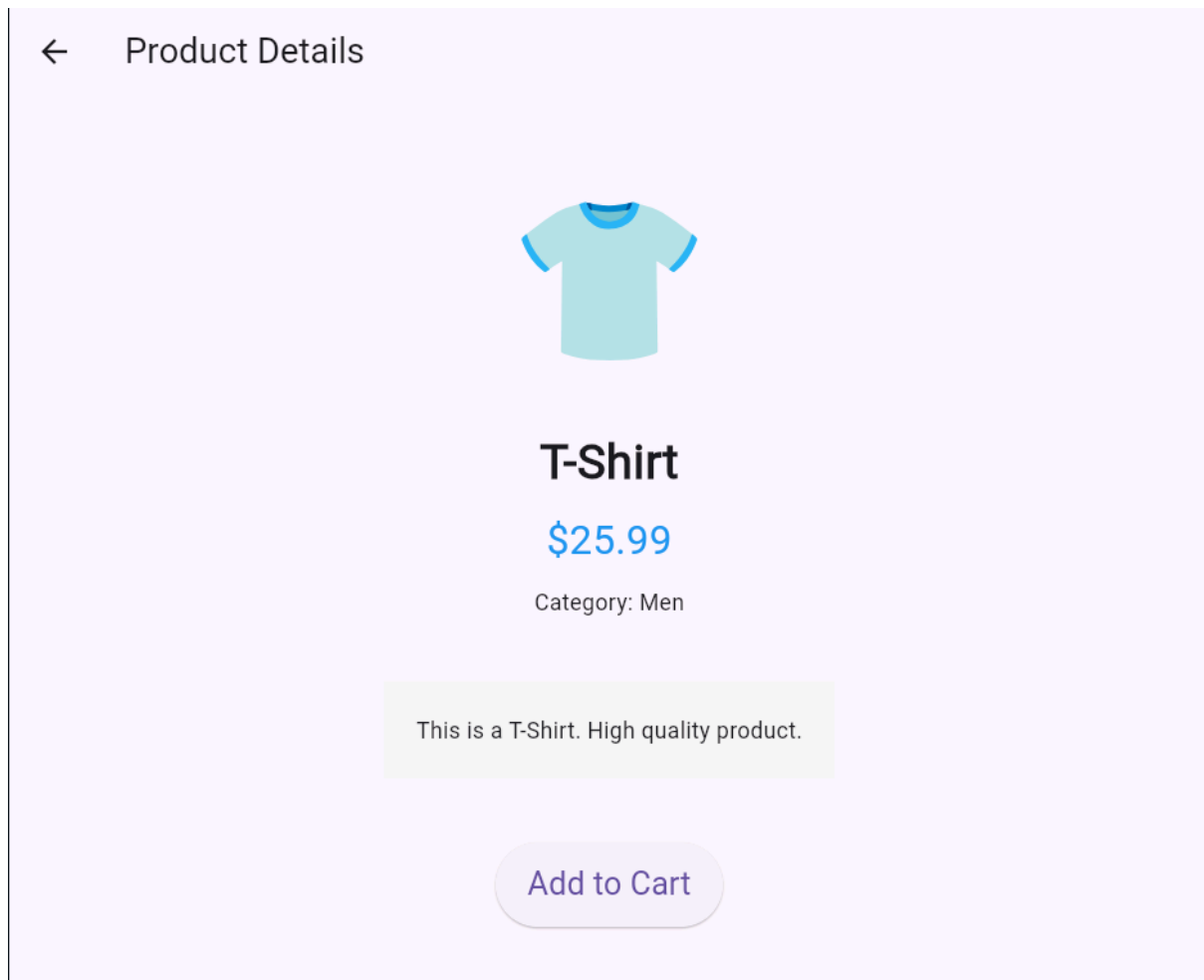The Variables
Product data such as name, price, image, and description is received through navigation parameters and stored for display purposes.

The Classes
The screen is implemented as a StatefulWidget to manage dynamic UI updates when data is loaded or changed.

The Functions
Functions in this screen are responsible for building the UI components and handling navigation actions.

Categories Screens

Overview

The categories screen organizes clothing products into different groups such as shirts, pants, and accessories.
This improves the user experience by making product browsing faster and more organized.

The Variables
Variables are used to store category names and the list of products related to each category.
The Classes
Reusable widget classes are used to ensure consistent design across all categories.
The Functions

Functions filter and display products based on the selected category

Clothes Store ♥ 🛒

👕	**T-Shirt** $25.99 - Men	♡	🛒
👖	**Jeans** $49.99 - Men	♡	🛒
👗	**Dress** $39.99 - Women	❤️	🛒
👜	**Handbag** $29.99 - Women	❤️	🛒
👟	**Sneakers** $59.99 - Men	❤️	🛒
🧣	**Scarf** $19.99 - Women	❤️	🛒
🧥	**Jacket** $79.99 - Men	❤️	🛒

Clothes Store

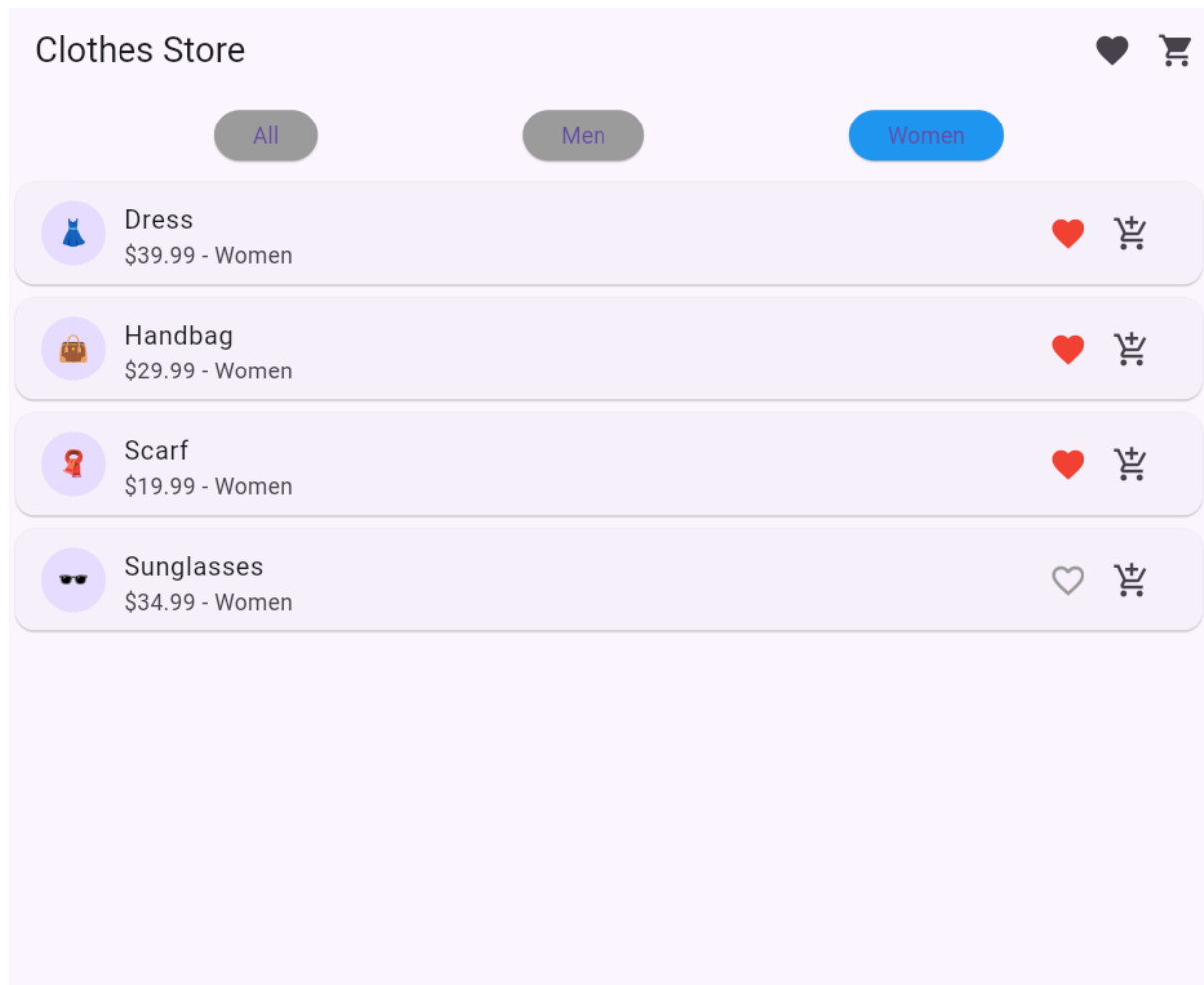### T-Shirt
$25.99 - Men

Jeans
$49.99 - Men

Sneakers
$59.99 - Men

Jacket
$79.99 - Men

Wishlist Screen

Overview

The Wishlist screen allows users to save their favorite clothing items for later viewing.
It enhances the shopping experience by enabling users to quickly access products they are interested in without searching for them again.
This feature increases user engagement and simulates real e-commerce application behavior.

The Variables

The screen uses variables to store a list of selected products added to the wishlist.
Each item in the wishlist contains essential product information such as product name, price, and image.
These variables help maintain the wishlist state and ensure that the data remains consistent across the application.

The Classes

The Wishlist screen is structured using Flutter widget classes that manage the layout and presentation of saved products.

The separation between UI components and data logic ensures that the wishlist feature is scalable and easy to maintain.

The Functions

Functions are responsible for adding products to the wishlist, removing items from it, and displaying the updated list in real time.
Additional functions handle user interactions such as navigating from the wishlist screen to the product details screen.

← **Favorites**

Dress
$39.99 - Women

Handbag
$29.99 - Women

Jacket
$79.99 - Men

Sneakers
$59.99 - Men

Scarf
$19.99 - Women

Clothes Store

All   Men   Women

T-Shirt
$25.99 - Men

Jeans
$49.99 - Men

Dress
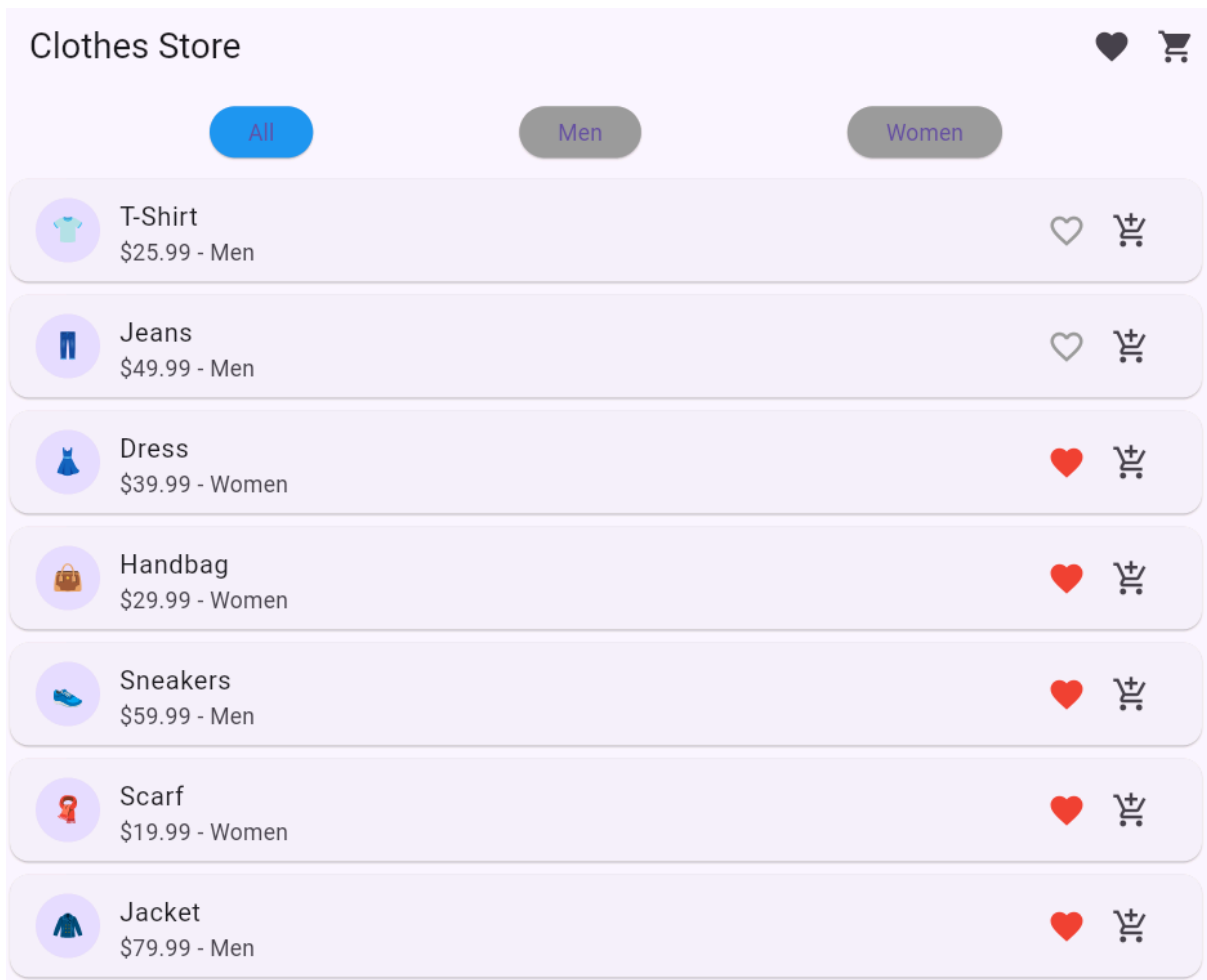$39.99 - Women

Handbag
$29.99 - Women

Sneakers
$59.99 - Men

Scarf
$19.99 - Women

Jacket
$79.99 - Men

Navigation & Application Flow

Overview
This part of the application manages the navigation flow between all screens.
It ensures smooth transitions between the product list, categories, and product details screens.

The Functions
Flutter navigation functions are used to control screen transitions and maintain a simple, single-flow user experience.