

Shopro E-Commerce App: Comprehensive Report

Overview

Shopro is a sophisticated e-commerce application developed using Flutter. It provides a smooth and interactive shopping experience with features like product listing, detailed product views, cart management, and efficient state management using Riverpod.

Project Structure

- **lib/**: The main source code directory.
 - **components/**: Contains reusable UI components.
 - **custom_button.dart**: Defines a customizable button widget.
 - **product_category_tile.dart**: Widget for displaying product categories on the home screen.
 - **constants/**: Centralized file for shared constants.
 - **constants.dart**: Stores common text styles, colors, and padding values to ensure consistency across the app.
 - **models/**: Contains data models.
 - **data_model.dart**: Defines the data structure for products and reviews.
 - **providers/**: Contains state management logic.
 - **cart_provider.dart**: Manages the cart state and actions (e.g., adding/removing products).
 - **product_list_provider.dart**: Fetches and manages the list of products.
 - **screens/**: Contains different screens of the app.
 - **cart_screen.dart**: Displays the user's cart and allows product removal.
 - **home_screen.dart**: Shows the product categories and a list of products.
 - **product_description.dart**: Provides detailed information about a selected product.
 - **main.dart**: The entry point of the application.
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Features

- **Product Listing:** A comprehensive list of products displayed with images, prices, and ratings.
 - **Product Details:** Detailed information including price, description, stock status, and reviews.
 - **Search Functionality:** Users can search for products using a search bar.
 - **Cart Management:** Users can add or remove products from their cart.
 - **Category Browsing:** Horizontal scrollable list to view products by category.
 - **State Management:** Utilizes Riverpod for efficient state management.
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Dependencies

- **Flutter:** The framework used for building the UI.
 - **Riverpod:** State management solution to handle the app's state efficiently.
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Installation & Setup

Clone the Repository

bash

Copy code

```
git clone https://github.com/yourusername/shopro.git
```

Navigate to the Project Directory

bash

Copy code

```
cd shopro
```

Install Dependencies

bash

Copy code

```
flutter pub get
```

Run the Application

bash

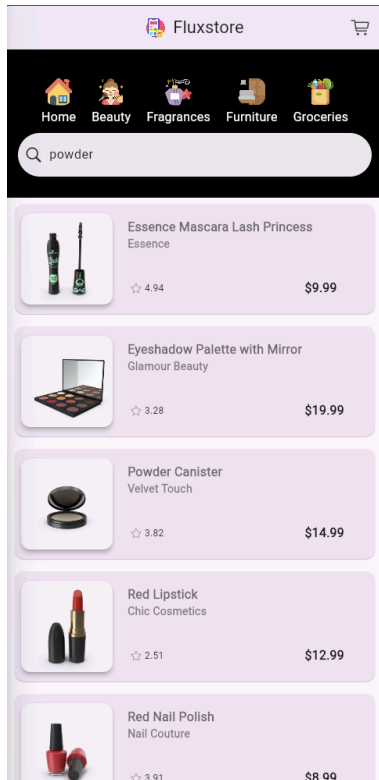
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```
flutter run
```

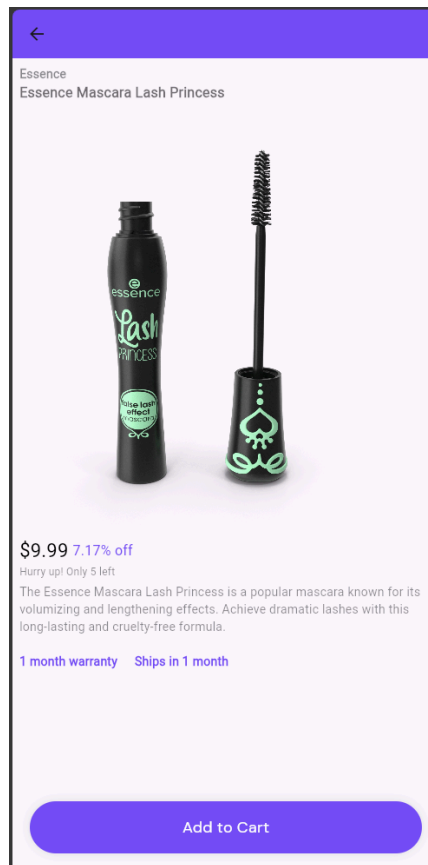
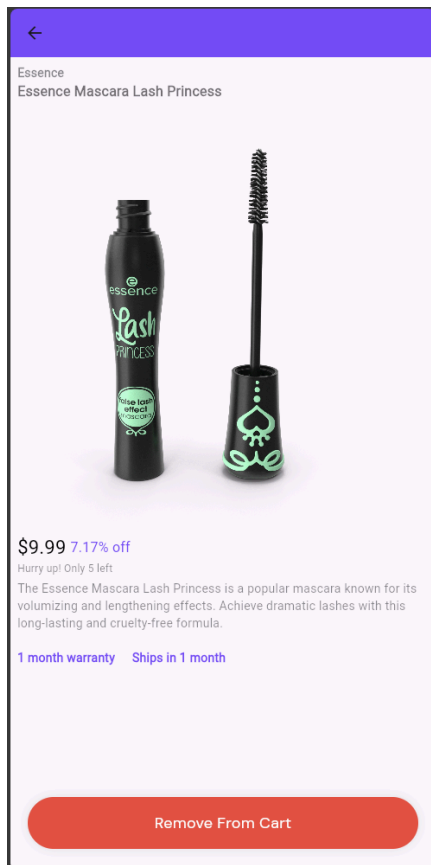
Development Guidelines

- **Adding Features:** Create new Dart files in the appropriate directory and update relevant provider or state management logic.
- **Updating UI:** Modify widgets in the `components` and `screens` directories and use constants from `constants/constants.dart`.

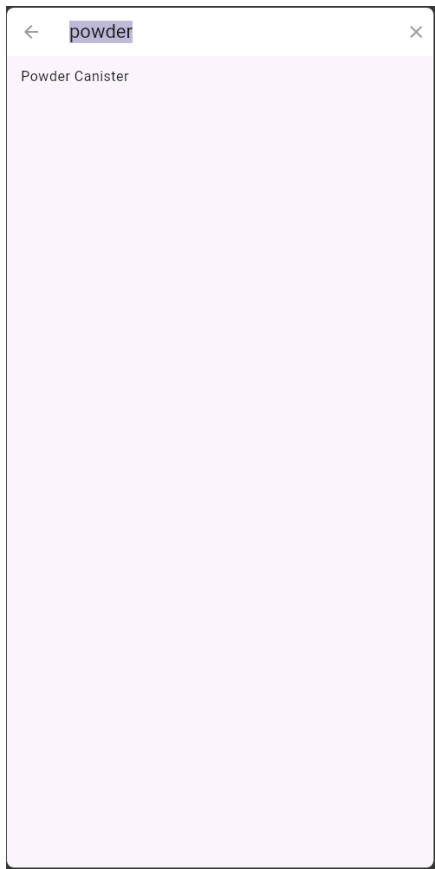
HomeScreen :



Cart Screen :



Searchbar



Cart Page

