



Group 7 Semester Project - ChadWare

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Overview



ChadWare - E-Commerce Shopping App

- ◆ **Secure User Login**
- ◆ **Browse Products by Category**
- ◆ **Add/Remove Products from Cart**
- ◆ **Checkout & Save Receipt** (User selects save location)
- ◆ **Profile Management Features** (coming soon)

Technologies:

.NET MAUI • SQLite • Dependency Injection • MVVM Design

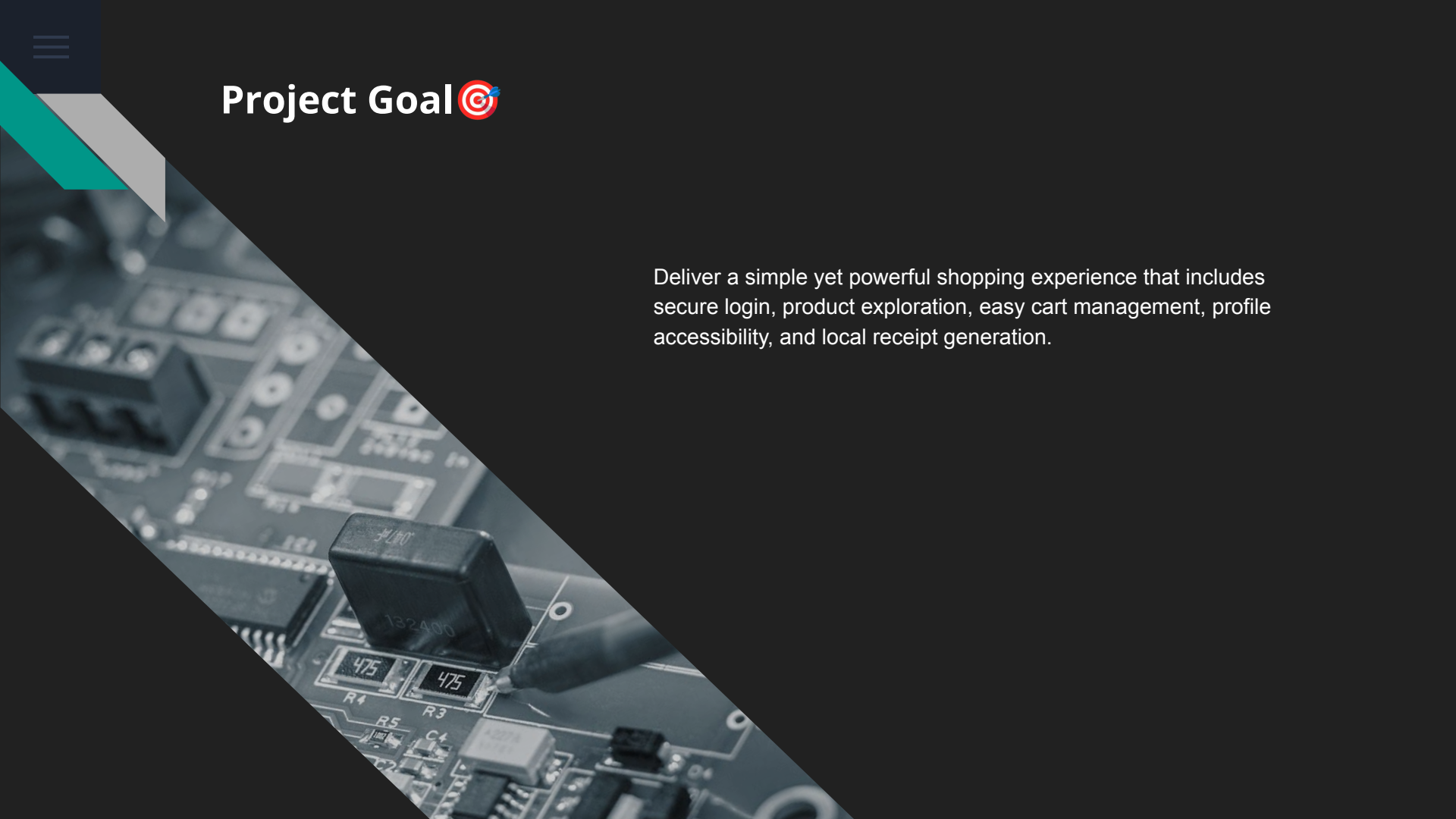
Goal:

Deliver a seamless shopping experience with authentication, cart management, checkout, and receipt generation.



Project Goal

Deliver a simple yet powerful shopping experience that includes secure login, product exploration, easy cart management, profile accessibility, and local receipt generation.



✨ ✨ Key Features

- **User Authentication:**
 - Users can securely log in using their email and password.
 - Authentication is validated against a local database.
- **Product Browsing**
 - View detailed product listings categorized into Men, Women, Accessories, and Jewelry.
 - Search and filter products easily.
- **Cart Management:**
 - Add products to the cart.
 - Remove products from the cart.
 - View and update cart contents dynamically.
- **Profile Management:**
 - Users can access their profile settings.
 - Placeholder user profile page implemented for future customization.
- **Checkout Flow:**
 - Confirm checkout.
 - Save a **receipt** with the list of purchased items.
 - Let the user **choose where to save** the receipt file.
- **Navigation:**
 - Easy navigation between Home, Product Categories, Cart, and Checkout.
 - Built-in back button and quick-access tabs.

Technologies Used

.NET MAUI (UI Framework)

- Build cross-platform apps (Windows, Android, iOS).
- Single codebase for all devices.
- Used for pages, navigation, layout (e.g., CartPage, CheckoutPage).

SQLite (Local Database)

- Lightweight database stored on device.
- Stores Users, Products, Cart Items, Orders.
- Fast read/write without needing a server.

Dependency Injection (DI)

- Manages services automatically.
- Injects `LocalDataService`, `CartController`, etc.
- Makes code cleaner, scalable, and testable.

MVVM Principles

- Separates UI (XAML) from Logic (Controllers).
- Organized app structure (Model → View → Controller).
- Easier maintenance and scaling.

Microsoft.Maui.Storage (File Saving)

- Handles cross-platform file access.
- Saves receipts after checkout.
- Safe and consistent on Windows, Android, and iOS.



User Authentication

- Basic structure for **user login and registration** is prepared.
- Future expansion for **secure account access**.
- Supports storing and retrieving user credentials.
- Will allow personalized experiences like order history and saved preferences.

Home

Sign In

CHAD
Ware

Email

Password

☐ **Keep Me Signed In**
Uncheck if you are using a public device

Login

Sign up



[Forgot Password](#)




User Profile / Settings Page

- Includes basic profile interaction (e.g., user icon, login/logout concept).
- Allows users to **edit preferences** and manage accounts.

User Profile



 New

Account Settings

Personal Info

Password, Email, Mobile, and more.

Communications

Manage your notifications and preferences.

Payment Methods

Add, edit, or remove payment options.

Sign Out

Personal Information

Name:

New

Change Name

Email:

chadmcDaniel@usm.edu

Change Email

Change Password

Mobile Number:

Not Set

Change Mobile Number

Birthday:

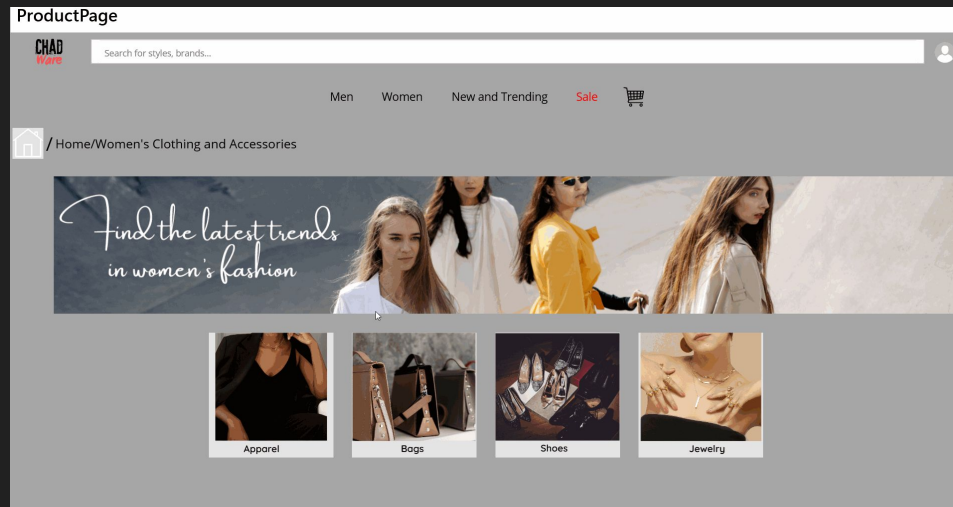
Not Set

Add Birthday



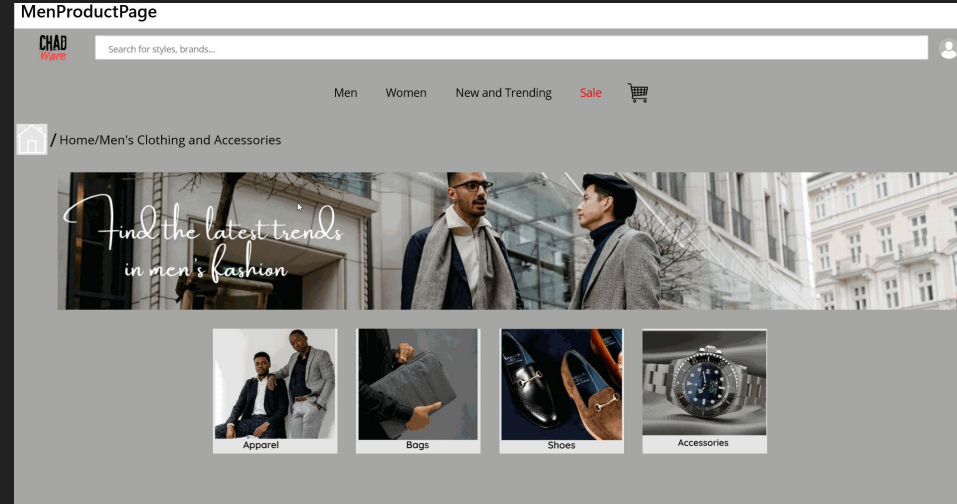
Home Pages (Men & Women Categories)

- Dedicated home screens for **Men** and **Women** products.
- Quick-access buttons for browsing different sections.
- Easy navigation between product categories.



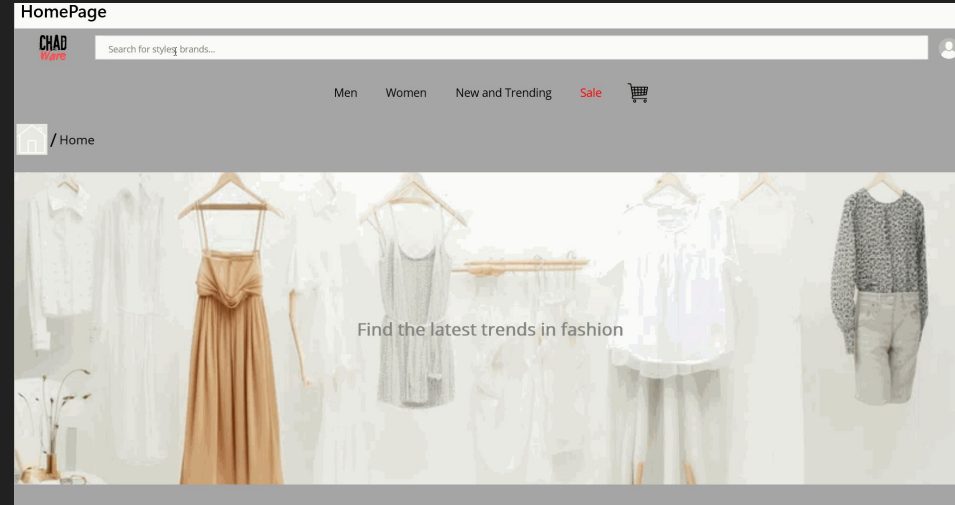
Category Pages (Apparel, Jewelry, Accessories)

- Products are filtered by **category type**.
- Displays relevant products when navigating into sections like **Apparel**, **Jewelry**, **Accessories**, etc.
- Supports scalable product expansion.
- Unified, clean design across all categories.



Product Filtering/Browsing

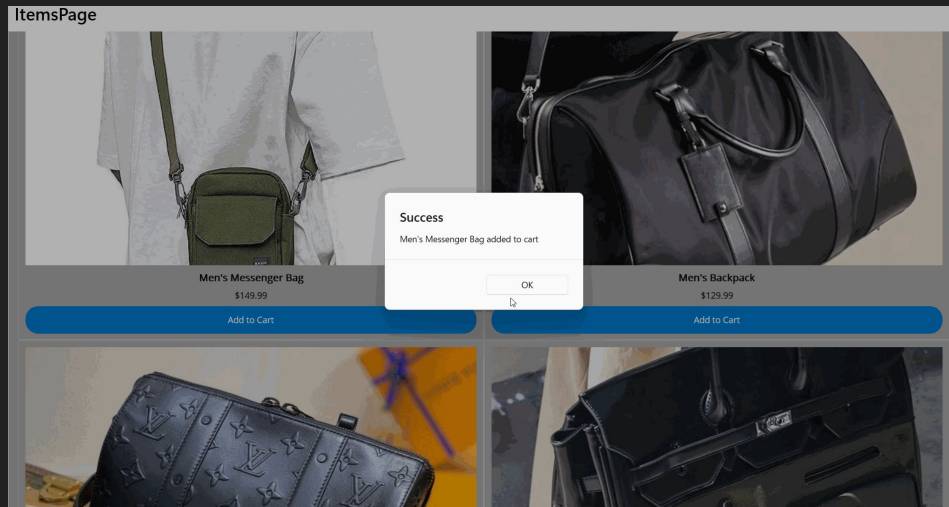
- Search bar available on key pages (Home, Cart, Category).
- Users can input product names, styles, or brands.
- Designed for fast and easy discovery of products.
- Scales well for larger catalogs in future updates.





Cart Management

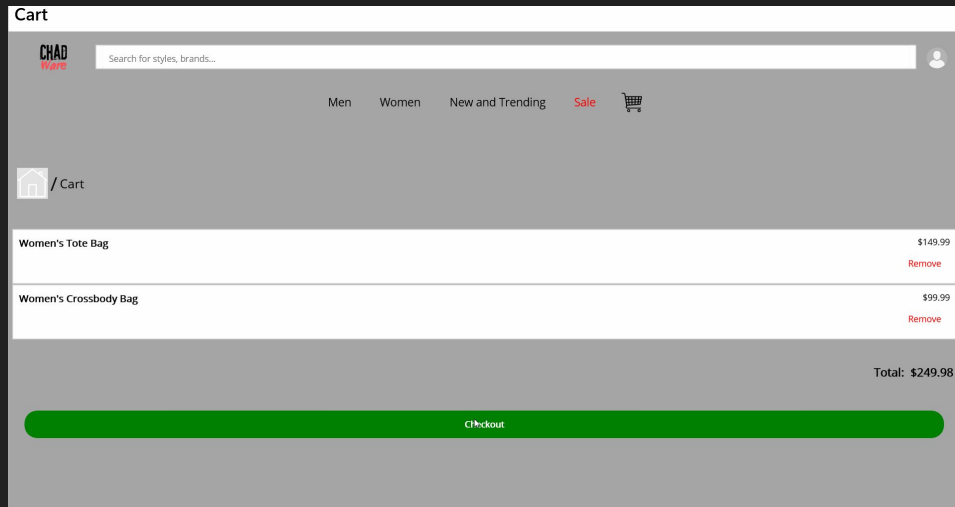
- Displays all added products dynamically.
- Users can **remove items** directly from the cart.
- Total price is automatically calculated.
- Empty cart shows a friendly message ("Your cart is empty").





Order Management

- Users can finalize their purchases easily.
- After checkout, a **receipt file** is generated and saved locally.
- Confirmations ensure no accidental orders.
- Billing information is simulated (simple and fast experience).



Thank you!

Please enjoy the Demonstration

