The Warehouse

Manager Specials

REPORT OF THE PROJECT SUMMARY

Team X

Table of Contents

01 Project Introduction

02 App Demonstration

03 Architecture Overview

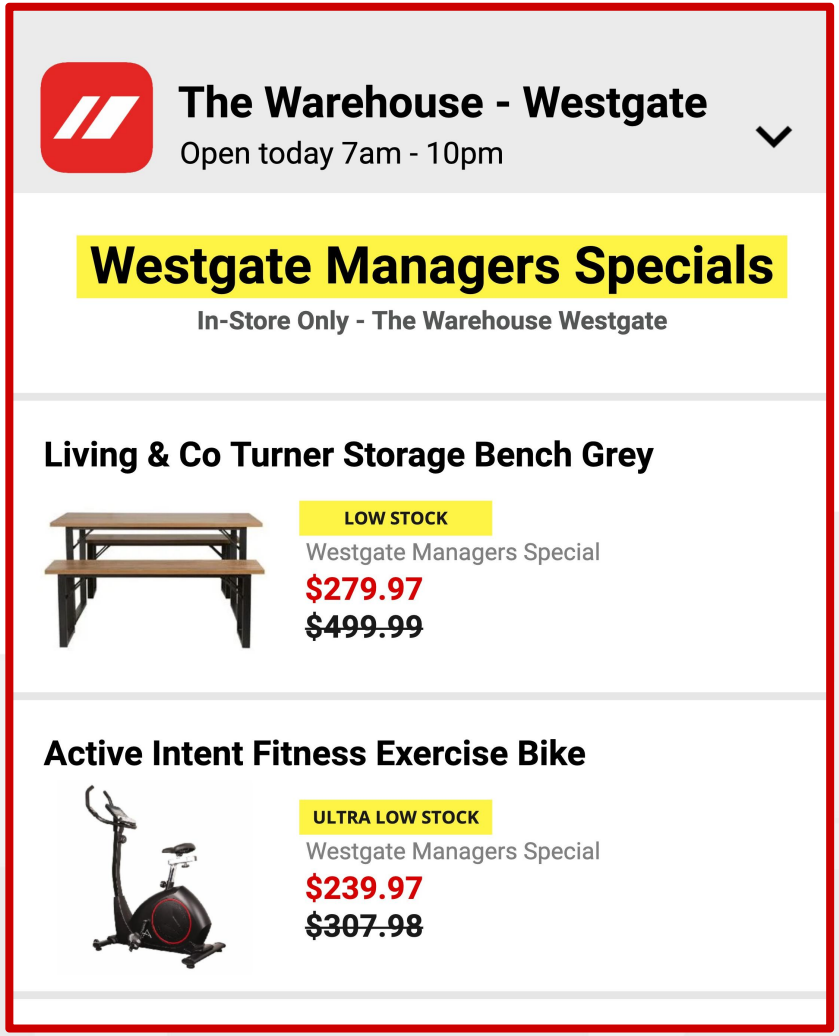
04 Project Impact

PART 01

Project Introduction

Project Introduction

THE WAREHOUSE SPECIALS



Project Background

- 88 Branches.
- Every week.
- The current app does not show these.
- A prototype is needed.

Demand Key Points

- App Goal:
  Display special offers defined by store managers.
- Attract customers to visit physical stores.
- Not an online shopping app.
- Technologies:
  OkHttp for API communication,
  Jetpack Compose for frontend.

PART 02

App
Demonstration

Home Page

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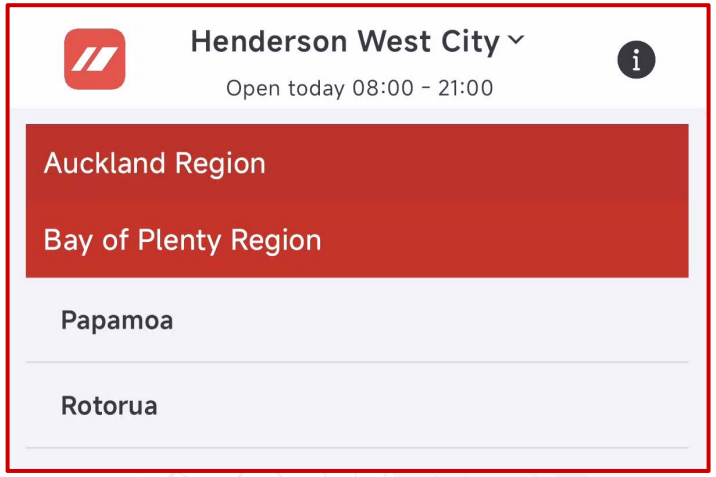
Branch Selector

- Displays current branch name and business hours.
- Click to expand the drop-down list

Product List

- Display product name, thumbnail, price (range).
- Click to enter the product detail page.



Shop Selection List

- Red rows are regions.
- White rows are branch names.
- Region rows are collapsible.
- Click branch name to switch.

Home Page

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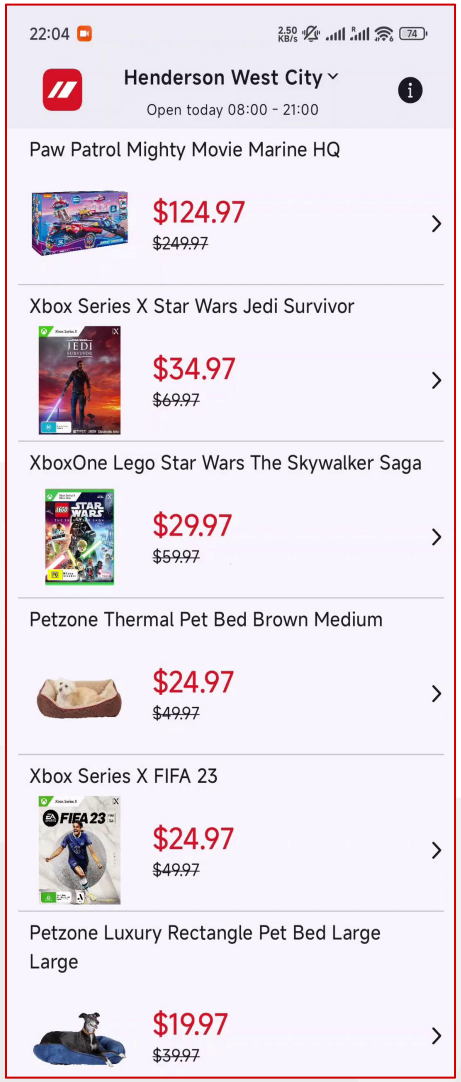

01 Displays current branch name and business hours.

Click to expand the drop-down list

02 Display product name, thumbnail, price (range).

Click to enter the product detail page.

03 Red rows are regions, white rows are branch names.

Region rows are collapsible. Click to switch.

Product Detail Page

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Living & Co 500 gsm NZ Wool Duvet Inner White King

Living & Co 500 gsm NZ Wool Duvet Inner White King

$39.97 ~~$79.97~~

Save: $40.00

Offer ends: 2024/09/28

Size

KN SK

Barcode

9401097003416

Stock Level

Only 4 units left

Did you find it?

Yes No

Product Image Component

- Click to enlarge.
- Allow zoom/pan.
- Varies by product size/color.

Size/Color Selector

- Display current/original price and other info.
- Display available sizes and colors.

Barcoding and Stock

- Display the product barcode.
- Displays stock quantity.

Product Detail Page

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01 Display the main image of the product.
Click to enlarge.

02 Display the discounted price, original price, price difference, and promotion end date.

03 Color/Size selector.
Display product barcode and stock.

Branch Detail Page

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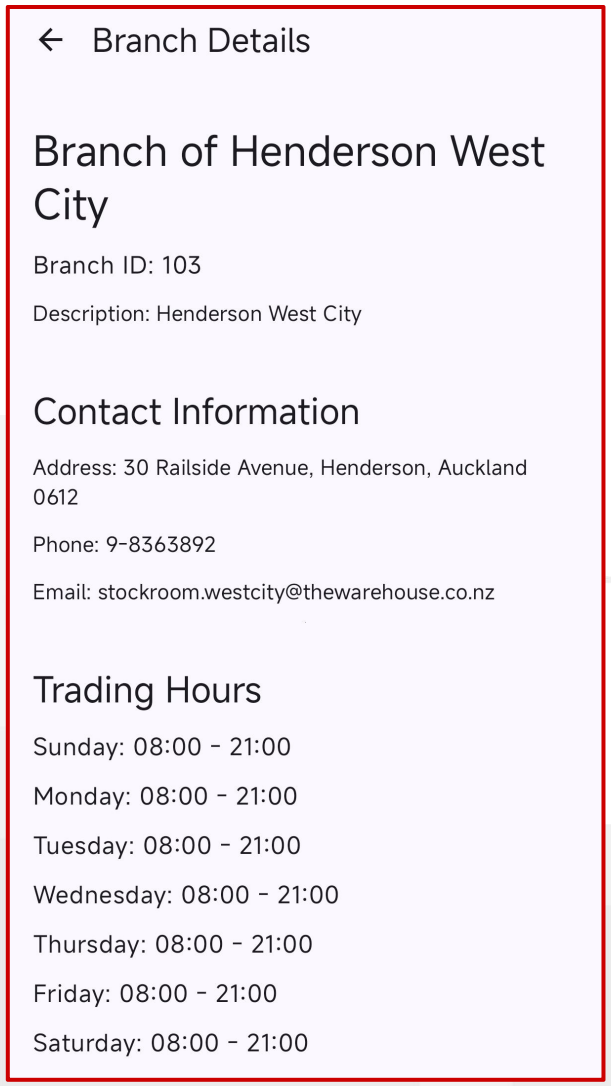

Branch Name

Includes branch ID and branch description. (Information comes from API)

Contact Details

Include address, phone number and email.

Trading hours

Since the main interface only provides the trading hours for the current date,
the trading hours for each day of the week are provided here.

Dark Theme

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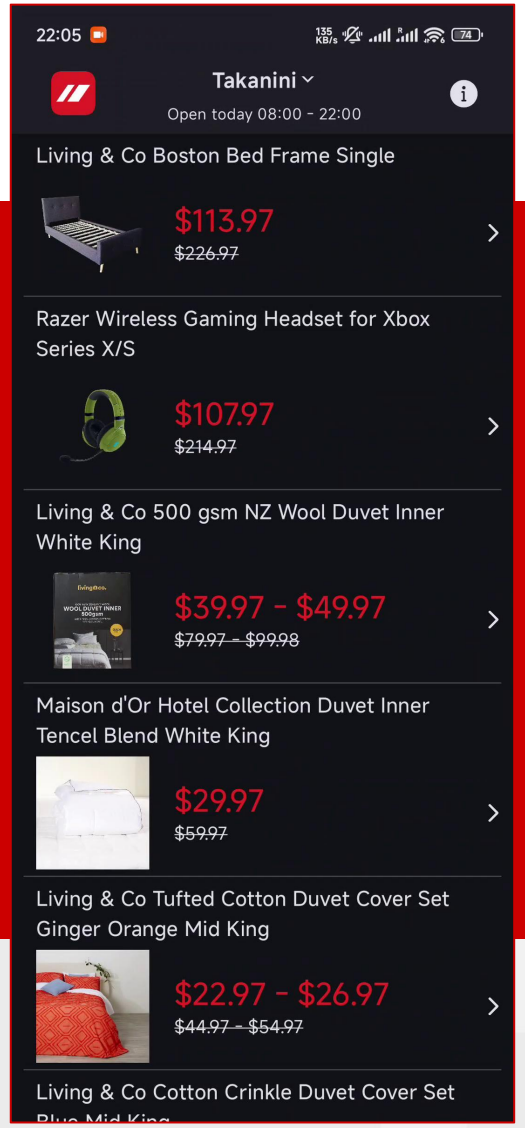
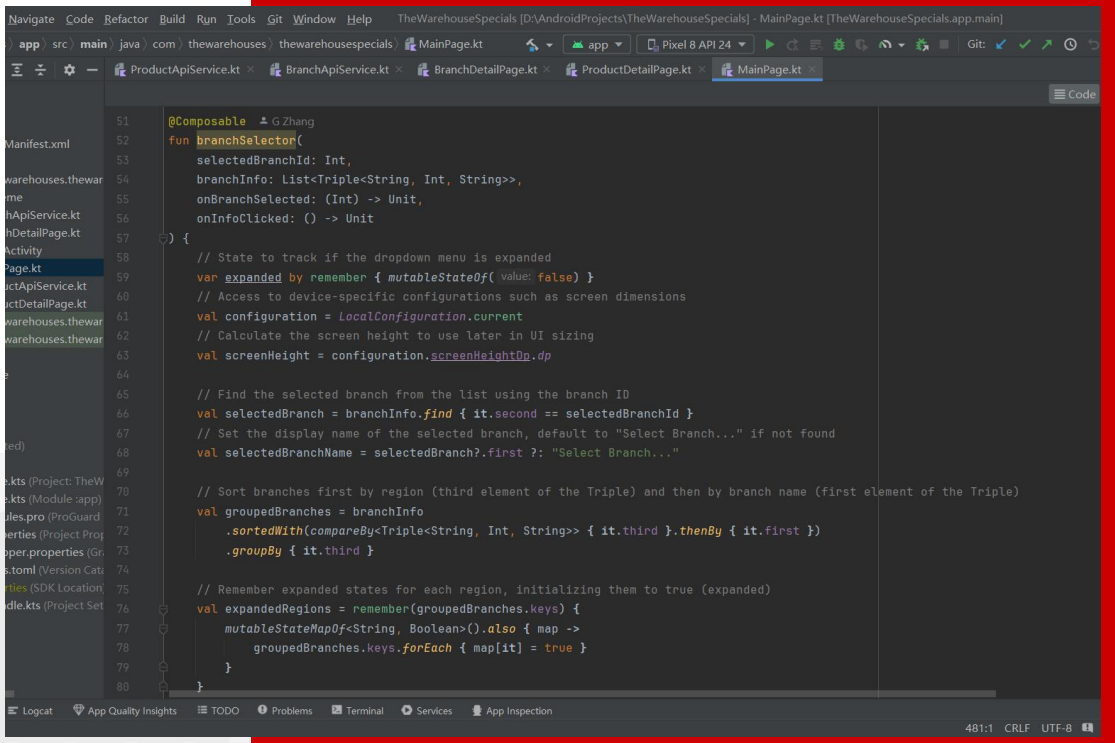


Android 10 and above have a dark theme.

The App adapts to system-wide dark mode, improving user experience in low-light environments.

PART 03

Architecture Overview



Architecture Overview

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API Communication and Data Processing

Manages API requests to fetch real-time store and product data.

OkHttp library

- **Method**:
  - getProductByBID() dynamically retrieves product data for each store.
- **Data Handling**:
  - API responses are processed to categorize and display independent, semi-independent, and composite products.

Architecture Overview

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State Management and UI Updates

Provides a reactive UI that responds to real-time data changes.

Jetpack Compose

- **Data Flow:**
  - Utilizes StateFlow and LiveData for seamless UI updates, ensuring smooth transitions when users select different stores or products.
- **Collapsible Branch Selection:**
  - Uses LazyColumn and expandable UI components to allow users to collapse or expand regions for easier navigation between stores.

Architecture Overview

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Image Zoom and Interaction

Allows users to zoom in, pan, and interact with product images.

Accompanist library

- Provides a detailed view of products, enhancing user experience, especially for items like clothing or electronics.

Architecture Overview

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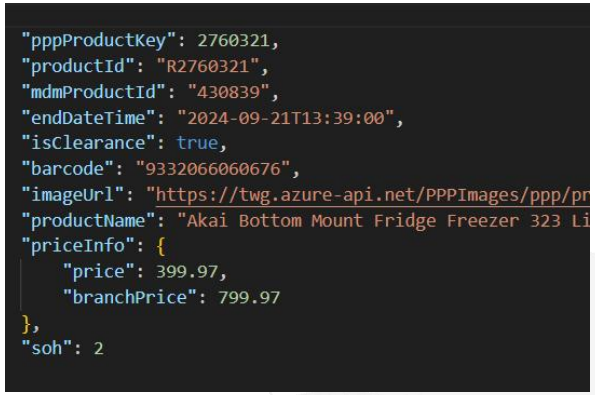
Barcode Generation

Generates Code 128 barcodes based on product IDs.



ZXing library

- Enables barcode scanning for product lookups and fast checkout in physical stores.

PART 04

Project Impact

Impact on the Client

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Increased Foot Traffic

By presenting special deals, the app serves as a marketing tool that draws customers to the stores. This helps client enhance in-store shopping experiences, which can boost sales.

01

02

Improved Customer Engagement

The ability to easily update and showcase special offers in real-time ensures that managers can keep their promotions relevant and effective.
The flexibility to change promotions based on stock levels or seasonal events gives client a strategic advantage in adapting to customer demand.

03

Brand Loyalty

By providing customers with a convenient way to find promotions and encouraging them to visit physical locations, the app helps strengthen brand loyalty.

Impact on the Users

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01

Convenience

Users can quickly browse special offers across multiple stores, grouped by region, helping them decide which store to visit based on the deals available and the store's proximity.

02

Time Savings

The clear display of store operating hours and promotions saves users time. They can quickly find which stores are open, what deals are available, and make a plan to visit a store that suits their needs.

03

Better Decision-Making

With detailed product information, including original and discounted prices, users can easily compare offers. Features like promotion end date ensure that users are fully informed before making a trip to the store.

The End!

Thanks for Listening!

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Team X

Question & Answer

Team X