

# Technical Requirements – Long Press Compare

Challenge is accessible on Memberspot: <https://pl-coding.mymemberspot.io/library/jx3b7Qik9ip5qpNI8IF2/jmJLYnGZ2RljR6im5zVR/lxVWYGy24zGql9JT5egj/details>

## Scenario

This mini-app simulates a **product catalog screen**, where the user can select two products for comparison using a **long press gesture**. After selecting two items, the **Compare** icon in the top bar becomes active. Tapping it opens a **comparison screen** that displays a side-by-side table of specifications for the selected products. If the user long-presses a third product, it replaces the **last selected** item (the first one remains fixed).

## Figma Mockups

<https://www.figma.com/design/OUKoX7XUafdcBm3mqWdqu/Black-Friday-Madness?node-id=2005-1691>

## Fonts - [Host Grotesk](#)

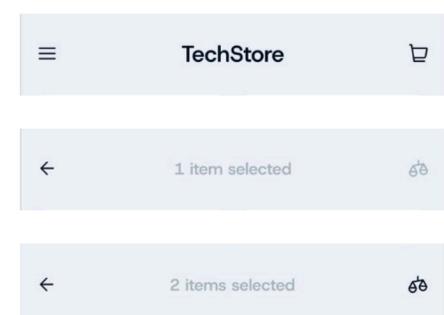
## Feature Goal

Implement a product catalog where the user can select two items with a long press and then open a comparison screen displaying their specifications.

## Requirements

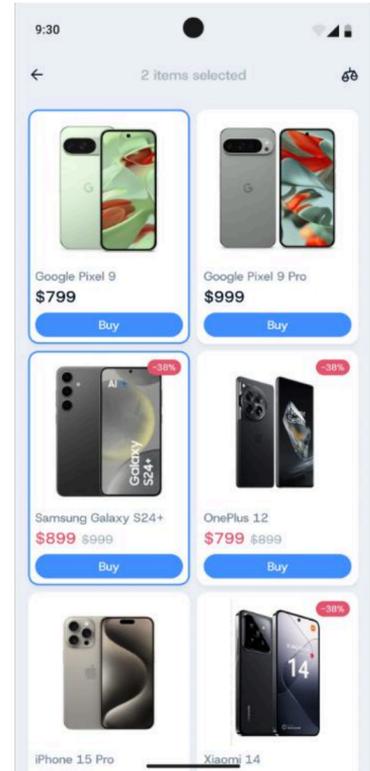
### Top Bar

- Default state:
  - Left — burger menu icon.
  - Center — store name "TechStore".
  - Right — cart icon.
- Selection state:
  - Left — back arrow ("←") that clears all selections.
  - Center — text showing selection count ("1 item selected" or "2 items selected").
  - Right — Compare icon:
    - inactive when only one product is selected;
    - active when two products are selected;
    - tapping it opens the comparison screen.



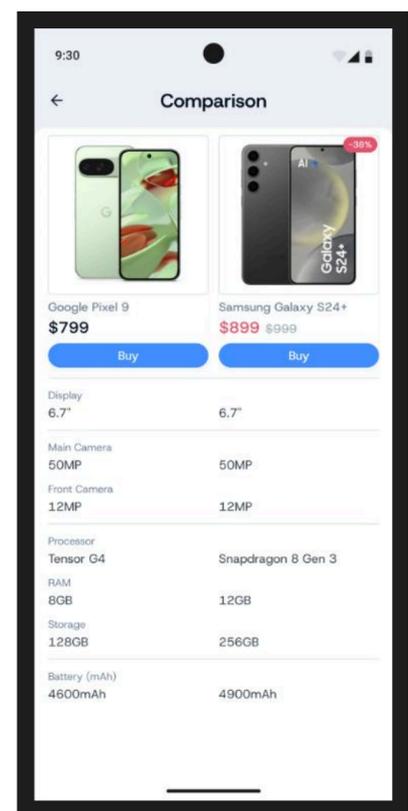
## Product List (Main Screen)

- Displayed as a 2×N grid.
- Each product card includes:
  - product image;
  - model name;
  - price (discounted + crossed-out original if applicable);
  - “Sale” badge (if applicable);
  - “Buy” button (non-functional).
- On **long press**:
  - the card is highlighted with a border (selection state);
  - the product is added to the selected list.
- Tapping an already selected item deselects it.
- When the user long-presses a **third product**, the **last selection is replaced with the new one**, while the first remains fixed.



## Comparison Screen

- **Top bar:**
  - Left — back arrow (“←”) to return to the product list.
  - Center — title “Comparison”.
- **Main content:**
  - Two selected products displayed side-by-side in columns.
  - Each column includes:
    - Product image.
    - Name and price (discounted + original).
    - “Buy” button (non-functional).
- **Below the product cards:**
  - A comparison table with aligned rows showing product attributes:
    - Display (inches)
    - Main Camera (MP)
    - Front Camera (MP)
    - Processor
    - RAM
    - Storage
    - Battery (mAh)
- Pressing the **Back** button returns to the product list, **preserving the current selection**.



## ⚙️ Logic

1. The user opens the product list.
2. Long-pressing a product → selects it (Selected #1).

3. Long-pressing another product → selects it as the second (Selected #2), activating the Compare icon.
4. Long-pressing a third product → replaces the **last selected item** while keeping the first fixed.
5. Tapping a selected item → deselects it.
6. If fewer than two items are selected → Compare icon becomes inactive.
7. Tapping the Compare icon → navigates to the comparison screen.
8. Tapping “Back” → returns to the catalog, keeping the selected items highlighted.

## Initial Data for Testing

Product list for the catalog:

### **Google Pixel 9** — \$799

- Display: 6.3"
- Main Camera: 50MP
- Front Camera: 12MP
- Processor: Tensor G4
- RAM: 8GB
- Storage: 128GB
- Battery: 4600mAh

### **Samsung Galaxy S24+** — \$999 (Sale: \$899)

- Display: 6.7"
- Main Camera: 50MP
- Front Camera: 12MP
- Processor: Snapdragon 8 Gen 3
- RAM: 12GB
- Storage: 256GB
- Battery: 4900mAh

### **iPhone 15 Pro** — \$1099

- Display: 6.1"
- Main Camera: 48MP
- Front Camera: 12MP
- Processor: A17 Pro
- RAM: 8GB
- Storage: 256GB
- Battery: 4350mAh

### **Google Pixel 9 Pro** — \$999

- Display: 6.7"
- Main Camera: 50MP
- Front Camera: 12MP
- Processor: Tensor G4
- RAM: 12GB
- Storage: 256GB
- Battery: 5100mAh

### **OnePlus 12** — \$899 (Sale: \$799)

- Display: 6.8"
- Main Camera: 50MP
- Front Camera: 32MP
- Processor: Snapdragon 8 Gen 3
- RAM: 12GB
- Storage: 256GB
- Battery: 5400mAh

### **Xiaomi 14** — \$799 (Sale: \$699)

- Display: 6.4"
- Main Camera: 50MP
- Front Camera: 32MP
- Processor: Snapdragon 8 Gen 3
- RAM: 12GB
- Storage: 256GB
- Battery: 4610mAh<sup>74</sup>

## What's Allowed?

- Standard Android / Jetpack libraries.
- No 3rd party libraries are allowed or would be required to complete this challenge

## What's not important

- Actual purchase or cart logic.
- Network requests or backend integration.
- Highlighting differences in the comparison table.
- Tablet layouts or dark mode support.

## Useful Links for This Challenge

- [Full Guide to Lazy Grid in Jetpack Compose](#)
- [Understand gestures](#)
- [Pointer input in Compose](#)
- [Navigation with Compose](#)
- [Stateful vs. Stateless Composables](#)
- [State Hoisting in Compose](#)
- [Managing State in Jetpack Compose \(Codelab\)](#)

## Submission & Rewards

- Successfully submitting this challenge via the **/submit-challenge** command on Discord grants you **200 XP**.
- Your submission must include:
  - a. A **Gist link** with your implementation.
  - b. A **screen recording** (max 20 seconds) showing:
    - Selecting one product.
    - Selecting a second product.
    - Replacing the last selected item with a new one.
    - Opening the comparison screen and returning to the list (selection preserved).