

# Refined User Story

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## Original Story

**User Story ID:** CPT2-5157

**Feature:** Basic UI-Only Product Listing Page Template

### Description:

This work item involved creating a basic UI-only Product Listing Page (PLP) template for the APP. The business logic will be integrated later.

### Scope:

The basic layout and features will be based on what has been delivered for the SLP:

- Header: delivery address and the sub category name
- Search bar
- Above product count, show: Sort By dropdown (UI), Filter by dropdown (UI)
- Show Product Count (e.g., "396 ITEMS FOUND")
- Basic product cards components: image, title, rating and price, Show "+" icon to add the item to cart (UI only), Show Shopping List / Wishlist icon

Business logic will be integrated later (Separate user stories will be created for the below additional features):

- Banner on the PLP
- Text below the banner
- PLP Page description
- Product card: Product Sub Descriptions, Ratings Layout, Wishlist, Favourite Buttons, Ratings View (Count of ratings), Product Price, Special offers, Flash Cards like Vitality, WList, New and 6 other flashes, Add to cart button
- Filter by dropdown menu: On promotion, Category, Brands, Price, rating etc.
- SEO data
- Filter: In stock online
- Static Under 18 banner on all WCellar PLPs - banner position to be discussed with the business

### Narrative:

As a W APP customer, I want to see all the items related to the product category and subcategory I have selected, so that I can find the product I am looking for.

### Acceptance Criteria:

Given: The customer is on the Shop Tab,

When: The customer selects a product category or subcategory,

Then: The product listing page is displayed and the Product Count (e.g., "396 ITEMS FOUND") is displayed above the product list.

Given: The customer is on the PLP,

When: The customer scrolls down the page,

Then: More product cards are displayed.

Given: The customer is viewing the product cards on the PLP,

When: The customer taps a product image,

Then: The product detail page is displayed.

Given: The customer is viewing the product cards on the PLP,

When: The customer taps a product title,

Then: The product detail page is displayed.

Given: The customer is viewing the product cards on the Foods PLP,

When: The customer taps the "+" icon to add the item to cart,

Then: The select quantity pop up screen is displayed.

Given: The customer is viewing the product cards on the Foods PLP,

When: The customer taps the shopping list icon,

Then: The shopping list pop up screen is displayed.

Given: The customer is viewing the product cards on the FBH PLP,

When: The customer taps the wishlist icon,

Then: The wishlist list pop up screen is displayed.

Given: The product detail page is displayed,

When: The customer taps the Back (<) icon,

Then: The customer's previous viewed product listing page is displayed.

Given: The anonymous customer is viewing the product cards on the FBH PLP,

When: The anonymous customer taps the wishlist icon,

Then: The sign in / register screen is displayed.

Given: The anonymous customer is viewing the product cards on the Foods PLP,

When: The anonymous customer taps the shopping list icon,

Then: The sign in / register screen is displayed.

Given: The anonymous customer is viewing the product cards on the Foods PLP,

When: The anonymous customer taps the "+" icon to add the item to cart,

Then: The sign in / register screen is displayed.

Given: The anonymous customer is viewing the product cards on the FBH PLP,

When: The anonymous customer taps the product image / title,

Then: The product detail page is displayed.

Given: The FBH product detail page is displayed,

When: The anonymous customer taps selects the colour, size and then tap 'Add to cart',

Then: The sign in / register screen is displayed.

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## Design Insights (from Context Analysis)

### Design Specification Summary

**Source:** Context\_Analysis.md

**Total Components Identified:** 45+ components across comprehensive PLP design

**Categories:** Header Components, Filter Sidebar Components, Product Card Grid, Pagination Components, Interactive States

**SVG File:** us2.svg (6070x4338px) - comprehensive, multi-section design

**Viewport:** 375px width (mobile-first design)

### Feature-to-Component Relationships

Feature	Related Components	Key Insights
Header with logo, search, navigation	<ul style="list-style-type: none"><li>• Header container (375px width)</li><li>• Logo area (top-left implied)</li><li>• Search bar region</li><li>• Navigation elements</li><li>• Separator line (y=969.8)</li></ul>	Structure present but search bar details need specification; navigation links implicit
Product grid display	<ul style="list-style-type: none"><li>• Product card (168x235px)</li><li>• Image placeholder with pattern</li><li>• Title text paths</li><li>• Price "R3,344.00"</li><li>• Star rating (5-star group)</li><li>• Rating count "(7)"</li><li>• Badge overlays (SAVE, NEW)</li></ul>	Comprehensive product card design with all required elements fully specified
Filter sidebar	<ul style="list-style-type: none"><li>• Sidebar container (168x438px)</li><li>• Color chips (28x28px)</li><li>• Size options ("Single Stretch")</li><li>• Price/category</li></ul>	Robust filtering UI with visual selection states (double-stroke border)

	labels	
	• Brand filters	
	("TRENERY")	
Pagination controls	• Page indicator areas (implicit)	Area identified but detailed button design unclear
	• Navigation controls (bottom region)	
Vertical scrolling support	• Large SVG (4338px height) • Multi-row product layout • Stacked card instances	Design dimensions support extensive vertical scrolling

## UI Components Identified (from Context Analysis)

- **Buttons:** Pagination controls (Previous/Next implicit), "+" add to cart icon (UI-only), Shopping list/wishlist icons
- **Input Fields:** Search bar (header region, details TBD), Filter input areas
- **Dropdowns>Selects:** Sort By dropdown (UI-only), Filter by dropdown (UI-only) - mentioned in scope but design details unclear
- **Navigation:** Header navigation elements, Back button ("<" icon), Category/subcategory links
- **Interactive Elements:** Product cards (clickable areas), Color filter chips (28x28px), Size checkboxes, Wishlist/shopping list icons
- **Product Cards:** 168x235px cards with white/gray background (#F5F5F5), 2-column grid layout for mobile (375px)
- **Badges/Labels:**
  - Red "SAVE" badge (#D0021B, 39x16px) for promotional items
  - Green "NEW" badge (#4D942A, 37x16px) for new arrivals
  - Rating count display "(7)" in gray (#666666)
  - "Not all colours..." availability status text

## User Flow Sequences (from Context Analysis)

### Flow 1: Initial Page Load

1. User navigates to PLP URL or selects category from Shop Tab
2. Page renders header: Woolworths logo (top-left), search bar, navigation menu
3. Main content area loads: filter sidebar (left, 168px) + product grid (center-right)
4. First set of products displayed in 2-column mobile grid
5. Each card shows: image, badge (SAVE/NEW if applicable), title, price (R format), star rating, rating count
6. Pagination controls visible at bottom

## Flow 2: Filter Application

1. User clicks filter sidebar
2. Filter sections display: Color chips, Size options, Price categories, Brand filters
3. User selects color chip (e.g., green #71C78A)
4. Selected state applies: black outer stroke (width=2) + white inner stroke
5. Product grid updates (client-side filtering): products filter by color, pagination resets to page 1
6. User can select additional filters (size, price, brand)
7. Grid updates cumulatively with each filter applied

## Flow 3: Product Card Interaction

1. User scrolls vertically through product grid
2. Product cards visible in viewport (hover state expected but not shown in static SVG)
3. User taps product card image or title
4. Navigation triggered: redirect to Product Detail Page (PDP)
5. PDP loads with selected product details

## Flow 4: Pagination Navigation

1. User views initial product set (page 1)
2. User scrolls to bottom of grid
3. Pagination controls visible: page numbers 1, 2, 3..., "Next" enabled, "Previous" disabled
4. User clicks page 2 or "Next" button
5. Page updates (client-side): grid refreshes with new product set, pagination updates current=2, "Previous" now enabled

## Flow 5: Add to Cart/Wishlist (Foods vs FBH distinction)

1. **Foods PLP:** User taps "+" icon → Select quantity popup displays
2. **Foods PLP:** User taps shopping list icon → Shopping list popup displays
3. **FBH PLP:** User taps wishlist icon → Wishlist popup displays
4. **Anonymous user:** Any of above actions → Sign in/register screen displays

## UI States Documented (from Context Analysis)

- **Default states:** Header visible, filter sidebar open, product grid populated (page 1), no filters selected
- **Selected/Active states:** Color chip selected (double-stroke border: black outer + white inner), filter applied to grid
- **Error states:** Not documented (empty state needed for zero results)
- **Empty states:** Not designed - "No products found" scenario missing
- **Hover states:** Not shown in static SVG - recommendations include elevation shadow, scale(1.02) for cards, opacity change for filters
- **Loading states:** Not documented - skeleton screens or spinner recommended

## Functional Specifications (from Context Analysis)

- **Component Layout:** Header (top, 375px width) → Filter sidebar (left, 168px) + Product grid (center-right, 2-column) → Pagination (bottom)
- **Icons:** Heart/loyalty icon, Wallet graphic, Clock icon, Discovery badge icon, Star rating (filled black/outline), Shopping list icon, Wishlist icon, "+" add to cart icon
- **Text Content:** "Line Cotton Herring Bone Stretch Button...", "R3,344.00", "SAVE", "NEW", "(7)" rating count, "Single Stretch", "TRENERY", "Not all colours are on...", "396 ITEMS FOUND" (product count)
- **Interaction Flows:**
  - Filter selection → Grid update
  - Product tap → Navigate to PDP
  - Scroll down → More products visible
  - Pagination → New product set loads
  - Add to cart/wishlist → Popup displays (or sign-in if anonymous)

## Validation Rules (from Context Analysis)

- **Product Count Display:** Format "396 ITEMS FOUND" (number + "ITEMS FOUND")
- **Price Formatting:** South African Rand format "R3,344.00" (currency symbol + comma separator + 2 decimals)
- **Star Rating Display:** 5-star system with filled (black) and outline states
- **Rating Count:** Parentheses format "(7)" in gray color
- **Color Chip Selection:** Visual feedback with double-stroke border (black + white)
- **Mobile Grid:** 2-column layout for 375px viewport (168px card width × 2 + spacing)

## Discrepancies & Gaps

- **Text mentions but no design representation:**
  - Sort By dropdown design (mentioned in scope, visual details unclear)
  - Filter by dropdown design (mentioned in scope, not detailed)
  - Product count "396 ITEMS FOUND" display location and styling
  - Detailed pagination button designs (Previous, Next, page numbers)
  - Search bar detailed design (icon, placeholder, active state)
  - Empty state design for zero search results or filtered-out products
  - Loading state indicators (skeleton screens, spinners)
  - Back ("<") button design for PDP navigation
- **Design shows but text omits:**
  - "SAVE" badge (red) - value-add promotional indicator not in ACs
  - "NEW" badge (green) - new arrival indicator not in ACs
  - Brand filter "TRENERY" - filtering by brand not in original scope
  - "Not all colours..." availability disclaimer - helpful info not required by ACs
  - Color filter chips - comprehensive color filtering not in simplified scope

- **Conflicting information:**
    - Scope mentions "basic product cards" but Context Analysis shows sophisticated cards with badges, ratings, status text
    - Scope says "UI only" for add to cart "+", but ACs define popup behavior
    - Deferred features list includes "Wishlist/Favourite Buttons" but ACs explicitly require wishlist icon functionality
  - **Missing states:**
    - Hover states for product cards and filters
    - Focus states for accessibility (keyboard navigation)
    - Disabled states for pagination buttons
    - Active state for current pagination page
    - Error state when product load fails
    - Empty state when no products match criteria
    - Loading state during filtering/pagination
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## Golden Checklist Evaluation

### INVEST Principles

- **Independent:** **Pass** - UI-only template can be built independently; no backend dependency per AC8 (though ACs reference popup behaviors that may need clarification)
- **Negotiable:** **Pass** - Layout, component placement, visual design details are negotiable; core functionality (display products, filters, pagination) is fixed
- **Valuable:** **Pass** - Delivers complete PLP template enabling customers to browse and select products; foundational feature for e-commerce app
- **Estimable:** **Pass** - UI-only scope is well-defined; effort estimable (3-5 days per Context Analysis conclusion)
- **Small:** **Warning** - 13 acceptance criteria is borderline large; story covers PLP display, filtering, pagination, navigation, AND authenticated vs. anonymous user behavior
- **Testable:** **Pass** - All 13 ACs have clear Given-When-Then format; testable scenarios defined

### CUPID Principles

- **Clear:** **Warning** - Persona clear ("W APP customer"), goal clear (browse products), but scope creep evident (deferred features list vs. ACs); "UI-only" conflicts with popup behavior ACs
- **Unambiguous:** **Warning** - Some ambiguity: "More product cards displayed" (lazy loading? pagination?); "UI-only" vs. interactive popups; Foods vs. FBH PLP differences

- **Precise:** ⚠ Warning - Product count format specified ("396 ITEMS FOUND"), but many details vague: default sort order, page size, filter logic (AND/OR)
- **Independent:** ✓ Pass - Same as INVEST Independent
- **Deliverable:** ✓ Pass - UI template is deliverable as static/client-side components

## CLEAR Criteria

- **Concise:** ⚠ Warning - Story attempts to cover too much: PLP layout, header, search, filters, product cards, pagination, navigation, authentication flows
- **Limited:** ⚠ Warning - Scope includes 13 ACs covering multiple user journeys; deferred features list suggests original scope was larger
- **Executable:** ✓ Pass - All ACs are actionable and implementable (with clarifications on UI-only vs. popup behavior)
- **Actionable:** ✓ Pass - Development team knows what to build (though some design details missing per Context Analysis)
- **Relevant:** ✓ Pass - Core e-commerce functionality; directly supports user need to browse products

## SMART Criteria

- **Specific:** ⚠ Warning - Some specific elements (product card components, filter types) but many details missing (sort options, page size, empty states)
- **Measurable:** ✓ Pass - Success measurable: PLP displays, products show correct info, filters work, pagination navigates, clicks navigate to PDP
- **Achievable:** ✓ Pass - UI-only template is technically feasible; 3-5 day estimate reasonable
- **Relevant:** ✓ Pass - Essential feature for product browsing; aligns with e-commerce app goals
- **Time-bound:** ⚠ Warning - No explicit timeline; Context Analysis estimates 3-5 days but story itself has no deadline

## WHO / WHAT / WHY / WORTH

- **WHO (Persona):** ✓ Pass - Clearly defined: "W APP customer" (Woolworths APP customer)
- **WHAT (Capability):** ✓ Pass - Clear capability: "see all items related to product category/subcategory I have selected"
- **WHY (Benefit):** ✓ Pass - User benefit stated: "so that I can find the product I am looking for"
- **WORTH (Business Value):** ✓ Pass - High business value: enables product discovery and purchase conversion; foundational e-commerce feature

## SURE + VAST Filters

- **Small:** ⚠ Warning - 13 acceptance criteria covering multiple features (display, filter, paginate, navigate) suggests story could be split

- **Unambiguous:** ⚠ Warning - "UI-only" scope conflicts with popup behavior ACs; Foods vs. FBH distinction adds complexity
- **Relevant:** ✓ Pass - Core browsing functionality for e-commerce app
- **Estimable:** ✓ Pass - UI-only scope enables estimation
- **Valuable:** ✓ Pass - Enables product discovery and shopping experience
- **Aligned:** ✓ Pass - Aligns with broader e-commerce app development
- **Small:** ⚠ Warning - (Duplicate check) Story borders on too large with 13 ACs
- **Testable:** ✓ Pass - All 13 ACs provide clear test scenarios

## Anti-Pattern Detection

- **Too vague:** ⚠ Warning - Some vagueness: default sort, page size, filter logic, empty/error states
  - **Too technical:** ✓ No - Focuses on user experience and UI elements, not implementation
  - **Too large:** ⚠ Warning - 13 ACs covering PLP display + filtering + pagination + navigation + authentication flows suggests story could be split into smaller vertical slices
  - **Unclear Done criteria:** ⚠ Warning - "UI-only" conflicts with popup behavior; missing non-functional requirements (performance, accessibility, responsive breakpoints)
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## USQS Scoring

### **Value: 6/6**

**Reasoning:** Exceptionally high business value as foundational e-commerce feature. Enables primary user journey (product discovery → selection → purchase). Without PLP, customers cannot browse catalog or find products. Strategic importance is critical. Revenue impact is direct (no browse = no purchase). User impact affects 100% of shopping journeys.

### **Clarity: 3/6**

**Reasoning:** Persona ("W APP customer") and goal (browse products) are clear, but significant clarity issues exist: (1) "UI-only" scope conflicts with popup behavior in ACs, (2) 13 ACs suggest scope creep, (3) Foods vs. FBH PLP behavioral differences add complexity, (4) deferred features list vs. in-scope ACs creates confusion, (5) many design details missing per Context Analysis (search bar, pagination, empty states, sort options). Major deduction for scope ambiguity.

### **Feasibility: 4/6**

**Reasoning:** UI-only template is technically achievable in 3-5 days per Context Analysis estimate. Standard e-commerce PLP patterns are well-known. However, 13 ACs covering display + filters + pagination + navigation + authentication is borderline too much for single story. Popup behaviors (select quantity, shopping list, wishlist, sign-in) may require

additional work beyond "UI-only" scope. Deduction for scope size and UI-only vs. behavior conflict.

### **Testability: 5/6**

**Reasoning:** Strong testability with 13 clear Given-When-Then acceptance criteria covering diverse scenarios (authenticated/anonymous users, Foods/FBH PLPs, various interactions). Each AC is verifiable. Context Analysis provides comprehensive traceability matrix. Minor deduction because some ACs reference behaviors (popups) that may require backend/state management beyond "UI-only" scope, creating test environment complexity.

### **Alignment: 5/6**

**Reasoning:** Strong alignment with e-commerce app product vision. PLP is essential building block. Dependencies identified (header, search, filters, product cards, pagination). Fits within broader "Shop" tab functionality. Minor deduction because scope conflicts (UI-only vs. popups, in-scope vs. deferred features) suggest misalignment between initial planning and current requirements.

## **Total Score: 23/30**

**Rating: Silver** (Needs minor refinements before sprint)

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## Refinement Recommendations

Critical (Must Address Before Sprint)

### **1. Clarify "UI-Only" Scope vs. Popup Behaviors**

- **Issue:** Scope says "UI-only template, business logic later" but multiple ACs define popup behaviors (select quantity, shopping list, wishlist, sign-in)
- **Action:** Define whether popups are (a) static UI mockups, (b) functional modals with hardcoded data, or (c) deferred to separate stories
- **Impact:** Critical - affects story sizing, technical approach, and AC testability

### **2. Resolve In-Scope vs. Deferred Features Conflict**

- **Issue:** Deferred features list includes "Wishlist, Favourite Buttons" but ACs explicitly require wishlist icon functionality
- **Action:** Create definitive in-scope vs. out-of-scope list; remove conflicting items from deferred list OR remove ACs that reference deferred features
- **Impact:** Critical - prevents scope creep and clarifies MVP

### **3. Split Story or Reduce ACs**

- **Issue:** 13 ACs covering PLP display + filtering + pagination + navigation + authentication is too large
- **Action:** Consider splitting into:
  - Story 1: Basic PLP layout + product grid display (ACs 1-4)

- Story 2: Filter sidebar + client-side filtering (AC5 implicit)
- Story 3: Pagination controls (AC7 implicit)
- Story 4: Product card interactions + navigation (ACs 5-13)
- **Alternative:** Keep consolidated but extend timeline estimate beyond 3-5 days
- **Impact:** High - improves deliverability and focus

High Priority (Should Address Before Implementation)

#### **4. Complete Missing Design Specifications**

- **Issue:** Context Analysis identifies missing designs: pagination details, search bar, sort dropdown, filter dropdown, product count display, empty state, loading state
- **Action:** Work with UX to create detailed designs for all missing components
- **Impact:** High - development cannot proceed without complete specifications

#### **5. Define Foods vs. FBH PLP Behavioral Differences**

- **Issue:** ACs differentiate Foods PLP (shopping list, "+" icon) from FBH PLP (wishlist icon) but no clear definition provided
- **Action:** Document: What is Foods category? What is FBH category? Which products belong to each? How does UI differ?
- **Impact:** High - affects component design and conditional logic

#### **6. Add Non-Functional Requirements**

- **Issue:** No performance, accessibility, or responsive design requirements stated
- **Action:** Define NFRs: page load time (<2s), WCAG 2.1 AA accessibility, responsive breakpoints (375px, 768px, 1200px), browser support
- **Impact:** High - quality and compliance

Medium Priority (Nice-to-Have)

#### **7. Define Default Behaviors**

- **Issue:** Many defaults undefined: sort order, products per page, filter logic (AND/OR), scroll behavior on pagination
- **Action:** Specify defaults: "Sort by: Newest" (or Popularity, Price), "20 products per page", "Filters use AND logic", "Scroll to top on page change"
- **Impact:** Medium - improves clarity and consistency

#### **8. Add Empty and Error State Designs**

- **Issue:** No design for zero results or error scenarios
- **Action:** Design empty state with message "No products found" + CTA, and error state with retry option
- **Impact:** Medium - edge case handling improves UX

## 9. Define Hover/Focus/Disabled States

- **Issue:** Context Analysis notes missing interaction states
  - **Action:** Document hover (elevation shadow), focus (blue outline for a11y), disabled (opacity 0.5) styles for all interactive elements
  - **Impact:** Medium - UX polish and accessibility
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## Refined Story

**As a** W APP customer (Woolworths mobile app user)

**I want** to see all products related to the category and subcategory I have selected in a browsable, filterable product listing page

**So that** I can discover and select products I am looking for to add to my cart

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## Functional Requirements

1. **FR1:** Display header with Woolworths logo, search bar, and navigation menu
  2. **FR2:** Show product count above grid in format "[Number] ITEMS FOUND"
  3. **FR3:** Display products in responsive grid layout (2-column mobile 375px, 3-column tablet 768px, 4-5 column desktop 1200px+)
  4. **FR4:** Each product card must show: image, title, price (R format), star rating (5-star), rating count
  5. **FR5:** Display promotional badges on product cards: "SAVE" (red) for discounts, "NEW" (green) for new arrivals
  6. **FR6:** Provide filter sidebar with color chips (28x28px), size options, price categories, brand filters
  7. **FR7:** Update product grid when filters selected (client-side filtering, no backend)
  8. **FR8:** Support vertical scrolling for viewing multiple product rows
  9. **FR9:** Provide pagination controls at bottom of grid (Previous, Next, page numbers)
  10. **FR10:** Navigate to Product Detail Page (PDP) when product card image or title tapped
  11. **FR11:** Show appropriate popup when interactive icons tapped:
    - Foods PLP: "+" icon → select quantity popup; shopping list icon → shopping list popup
    - FBH PLP: wishlist icon → wishlist popup
  12. **FR12:** Redirect anonymous users to sign-in/register screen for authenticated actions (add to cart, shopping list, wishlist)
  13. **FR13:** Return to previous PLP when Back ("<") button tapped from PDP
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## Non-Functional Requirements

1. **NFR1 - Performance:** Initial page load must complete within 2 seconds; filter/pagination updates within 500ms

2. **NFR2 - Responsiveness:** Support mobile (375px), tablet (768px), desktop (1200px+) viewports with appropriate grid columns
  3. **NFR3 - Accessibility:** Meet WCAG 2.1 AA standards (keyboard navigation, screen reader support, color contrast  $\geq 4.5:1$ , focus indicators)
  4. **NFR4 - Browser Compatibility:** Support Chrome, Safari, Firefox, Edge (latest 2 versions)
  5. **NFR5 - UI Consistency:** Align with Woolworths brand guidelines (colors, typography, spacing)
  6. **NFR6 - Client-Side Only:** No backend API calls (AC8) - use static/mock product data for UI template
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## Actors

- **Primary Actor:** W APP customer (authenticated user browsing products)
  - **Secondary Actor:** Anonymous customer (unauthenticated user browsing products)
  - **Secondary Actor:** Foods category system (determines Foods PLP behavior)
  - **Secondary Actor:** FBH (Fashion, Beauty, Home) category system (determines FBH PLP behavior)
  - **Secondary Actor:** Navigation system (handles PDP navigation and back button)
  - **Secondary Actor:** Authentication system (triggers sign-in/register for anonymous users)
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## Triggers

- **Trigger 1:** User selects product category from Shop Tab
  - **Trigger 2:** User selects product subcategory from navigation
  - **Trigger 3:** User performs search and views results in PLP
  - **Trigger 4:** User applies filters in sidebar
  - **Trigger 5:** User clicks pagination controls
  - **Trigger 6:** User scrolls down page
  - **Trigger 7:** User taps product card, "+" icon, shopping list icon, or wishlist icon
  - **Trigger 8:** User taps Back button from PDP
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## Preconditions

- **PC1:** User has Woolworths mobile app installed and launched
  - **PC2:** User is on Shop Tab
  - **PC3:** At least one product category/subcategory exists in system
  - **PC4:** Product data (mock/static) is available for UI template
  - **PC5:** Header, navigation, and routing components are functional
  - **PC6:** PDP (Product Detail Page) exists and is accessible
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## Main Flow

1. User navigates to Shop Tab and selects a product category (e.g., "Clothing")
  2. System loads Product Listing Page (PLP)
  3. Header renders with Woolworths logo (top-left), search bar, navigation menu
  4. Product count displays above grid: "396 ITEMS FOUND"
  5. Filter sidebar renders on left (168px width) with color chips, size options, price categories, brand filters
  6. Product grid renders in center-right area with products in 2-column layout (mobile 375px viewport)
  7. Each product card displays:
    - o Product image (168x235px)
    - o Badge overlay if applicable ("SAVE" red or "NEW" green)
    - o Product title (multi-line text)
    - o Price in R format (e.g., "R3,344.00")
    - o Star rating (filled/outline 5-star display)
    - o Rating count (e.g., "(7)")
  8. Pagination controls render at bottom with page numbers and Previous/Next buttons
  9. User can scroll vertically to view additional product rows
  10. User taps product card image or title
  11. System navigates to Product Detail Page (PDP) for selected product
  12. User can tap Back ("<") button from PDP to return to previous PLP view
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## Alternate Flows

### Alternate Flow A: Filter Application (Color)

1. User at PLP with unfiltered product grid
2. User taps green color chip (#71C78A) in filter sidebar
3. System applies selected state to chip (double-stroke border: black outer + white inner)
4. System filters product grid (client-side) to show only products matching green color
5. Product count updates: "87 ITEMS FOUND"
6. Pagination resets to page 1
7. User can select additional filters or deselect current filter

### Alternate Flow B: Pagination Navigation

1. User at PLP viewing page 1 (20 products displayed)
2. User scrolls to bottom and sees pagination controls
3. User taps "Next" button (or page number "2")
4. System loads next set of products (client-side navigation)
5. Product grid updates with products 21-40
6. Pagination updates: current page = 2, "Previous" button enabled, "Next" button enabled (if more pages)

7. User can navigate between pages using Previous/Next or page numbers

### **Alternate Flow C: Foods PLP - Add to Cart (Authenticated User)**

1. User at Foods PLP viewing product cards
2. User taps "+" icon on product card
3. System displays "Select quantity" popup
4. User selects quantity and confirms
5. (UI-only: popup closes, no actual cart update)

### **Alternate Flow D: Foods PLP - Shopping List (Authenticated User)**

1. User at Foods PLP viewing product cards
2. User taps shopping list icon on product card
3. System displays "Shopping list" popup
4. User can add product to list
5. (UI-only: popup closes, no actual list update)

### **Alternate Flow E: FBH PLP - Wishlist (Authenticated User)**

1. User at FBH PLP viewing product cards
2. User taps wishlist icon on product card
3. System displays "Wishlist" popup
4. User can add product to wishlist
5. (UI-only: popup closes, no actual wishlist update)

### **Alternate Flow F: Anonymous User - Add to Cart (Requires Authentication)**

1. Anonymous user at Foods PLP
2. Anonymous user taps "+" icon on product card
3. System detects user is not authenticated
4. System redirects to sign-in/register screen
5. User can sign in or create account
6. (After authentication, return to PLP and retry action)

### **Alternate Flow G: Anonymous User - Shopping List (Requires Authentication)**

1. Anonymous user at Foods PLP
2. Anonymous user taps shopping list icon
3. System redirects to sign-in/register screen
4. User must authenticate to access shopping list feature

### **Alternate Flow H: Anonymous User - Wishlist (Requires Authentication)**

1. Anonymous user at FBH PLP
2. Anonymous user taps wishlist icon

3. System redirects to sign-in/register screen
4. User must authenticate to access wishlist feature

### **Alternate Flow I: Anonymous User - View PDP (No Authentication Required)**

1. Anonymous user at FBH PLP
2. Anonymous user taps product image or title
3. System navigates to Product Detail Page (PDP) - no authentication required for viewing
4. User can browse product details
5. If user attempts to add to cart from PDP, system redirects to sign-in/register screen

### **Alternate Flow J: No Products Match Filter**

1. User at PLP with active filters
2. User selects additional filter that results in zero matching products
3. System displays empty state:
  - o Message: "No products found matching your criteria"
  - o "Clear filters" button
4. User can clear filters to restore product grid

### **Alternate Flow K: Search Results Display**

1. User enters search term in header search bar
2. User submits search
3. System navigates to PLP with search results
4. Product count displays: "42 ITEMS FOUND" for search term
5. Filter sidebar remains active for further refinement
6. User can apply filters to search results

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## **Acceptance Criteria**

**AC1:** Given the customer is on the Shop Tab, When the customer selects a product category or subcategory, Then the product listing page is displayed and the Product Count (e.g., "396 ITEMS FOUND") is displayed above the product list.

**AC2:** Given the customer is on the PLP, When the customer scrolls down the page, Then more product cards are displayed.

**AC3:** Given the customer is viewing the product cards on the PLP, When the customer taps a product image, Then the product detail page is displayed.

**AC4:** Given the customer is viewing the product cards on the PLP, When the customer taps a product title, Then the product detail page is displayed.

**AC5:** Given the customer is viewing the product cards on the Foods PLP, When the customer taps the "+" icon to add the item to cart, Then the select quantity pop up screen is displayed.

**AC6:** Given the customer is viewing the product cards on the Foods PLP, When the customer taps the shopping list icon, Then the shopping list pop up screen is displayed.

**AC7:** Given the customer is viewing the product cards on the FBH PLP, When the customer taps the wishlist icon, Then the wishlist list pop up screen is displayed.

**AC8:** Given the product detail page is displayed, When the customer taps the Back (<) icon, Then the customer's previous viewed product listing page is displayed.

**AC9:** Given the anonymous customer is viewing the product cards on the FBH PLP, When the anonymous customer taps the wishlist icon, Then the sign in / register screen is displayed.

**AC10:** Given the anonymous customer is viewing the product cards on the Foods PLP, When the anonymous customer taps the shopping list icon, Then the sign in / register screen is displayed.

**AC11:** Given the anonymous customer is viewing the product cards on the Foods PLP, When the anonymous customer taps the "+" icon to add the item to cart, Then the sign in / register screen is displayed.

**AC12:** Given the anonymous customer is viewing the product cards on the FBH PLP, When the anonymous customer taps the product image / title, Then the product detail page is displayed.

**AC13:** Given the FBH product detail page is displayed, When the anonymous customer taps selects the colour, size and then tap 'Add to cart', Then the sign in / register screen is displayed.

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## Dependencies

- **Dependency 1:** Header component with logo, search bar, and navigation (must be reusable across app)
- **Dependency 2:** Product Detail Page (PDP) must exist for navigation from product cards (ACs 3, 4, 12)
- **Dependency 3:** Authentication system to detect anonymous vs. authenticated users (ACs 9-11, 13)
- **Dependency 4:** Sign-in/register screen for anonymous user redirects (ACs 9-11, 13)
- **Dependency 5:** Popup components for select quantity, shopping list, wishlist (ACs 5-7) - may be UI mockups or deferred
- **Dependency 6:** Routing/navigation system for PLP ↔ PDP back button (AC8)
- **Dependency 7:** Product data source (static/mock data for UI-only template per AC8)

- **Dependency 8:** Category/subcategory classification system to differentiate Foods vs. FBH PLPs (ACs 5-7, 9-11)
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## Assumptions

- **Assumption 1:** "UI-only" means popups (select quantity, shopping list, wishlist) are static mockups that display but don't perform actual actions - **NEEDS CLARIFICATION**
  - **Assumption 2:** Client-side filtering uses mock product data with pre-defined attributes (color, size, price, brand)
  - **Assumption 3:** Default sort order is implicit (e.g., "Newest" or "Popularity") - **NEEDS DEFINITION**
  - **Assumption 4:** Products per page default is 20 (standard e-commerce convention) - **NEEDS CONFIRMATION**
  - **Assumption 5:** Filter logic uses AND (all selected filters must match) rather than OR - **NEEDS CLARIFICATION**
  - **Assumption 6:** Foods category includes groceries/consumables; FBH includes Fashion, Beauty, Home products - **NEEDS DEFINITION**
  - **Assumption 7:** Mobile-first design (375px) is primary; tablet and desktop are stretch goals - **NEEDS CONFIRMATION**
  - **Assumption 8:** Scroll-to-top occurs on pagination navigation (standard pattern) - **NEEDS CONFIRMATION**
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## Open Issues

1. **CRITICAL:** Clarify "UI-only" scope - are popups (select quantity, shopping list, wishlist) static mockups or functional modals?
2. **CRITICAL:** Resolve deferred features conflict - is wishlist icon in-scope (per ACs) or deferred (per features list)?
3. **CRITICAL:** Should story be split? 13 ACs covering PLP + filters + pagination + navigation + authentication is large
4. **HIGH:** Define Foods vs. FBH categories explicitly - which products belong to each?
5. **HIGH:** Complete missing designs - pagination buttons, search bar, sort dropdown, filter dropdown, product count display
6. **HIGH:** Define empty state design for zero results scenarios
7. **MEDIUM:** Specify default behaviors - sort order, products per page, filter logic (AND/OR), scroll behavior
8. **MEDIUM:** Define hover/focus/disabled states for all interactive elements (accessibility)
9. **MEDIUM:** Add loading state design (skeleton screens or spinner)
10. **MEDIUM:** Confirm responsive breakpoints and grid columns (2-col mobile, 3-col tablet, 4-5 col desktop)
11. **LOW:** Define badge priority if product is both "SAVE" and "NEW"

12. **LOW:** Specify whether anonymous users can apply filters or if authentication required
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## 📌 Definition of Ready (DoR)

### DoR Checklist

- **✓ Persona clear, concise title:** "W APP customer" persona defined; title could be more concise ("Basic PLP Template" vs. full description)
- **⚠️ Delivers small, vertical value:** Delivers complete PLP functionality BUT 13 ACs suggest story is too large; may benefit from splitting
- **⚠️ USQS ≥ 19 OR explicit refinement plan:** USQS = 23/30 (Silver) - EXCEEDS threshold but has clarity issues
- **✓ Testable ACs written (3–5 criteria):** 13 clear Given-When-Then ACs provided (exceeds recommended 3-5, reinforcing "too large" concern)
- **⚠️ Dependencies & estimates noted:** Dependencies identified; estimate: 3-5 days for UI-only (Context Analysis) - but scope conflicts may extend timeline
- **⚠️ No critical unanswered questions:** 4 critical issues identified (UI-only scope, deferred features conflict, story size, Foods vs. FBH definitions) - MUST BE RESOLVED

**Status:** ⚠️ NOT READY

### Reasoning:

While the story achieves USQS score of 23/30 (Silver), it cannot proceed to sprint due to **4 critical unresolved issues**:

1. "UI-only" scope conflicts with popup behavior in multiple ACs
2. Deferred features list contradicts in-scope ACs (wishlist)
3. Story size (13 ACs) suggests need for splitting into smaller vertical slices
4. Foods vs. FBH category definitions not provided

Additionally, Context Analysis identifies significant design gaps (pagination details, search bar, sort/filter dropdowns, empty states, loading states) that must be completed before development.

### Next Steps:

1. Product Owner to clarify "UI-only" scope and popup behaviors
2. Resolve deferred features list vs. ACs conflict
3. Consider splitting into smaller stories OR extend timeline beyond 3-5 days
4. Define Foods vs. FBH categories and behavioral differences
5. UX to complete missing component designs (pagination, search, dropdowns, states)
6. Team to confirm story point estimate in planning poker
7. Define default behaviors (sort order, page size, filter logic)
8. Add non-functional requirements (performance, accessibility, responsiveness)

Once these issues are addressed, story will be **READY** for sprint.