

# Sprint 2 Backlog

## Sprint Goal:

Implement the product browsing and searching features, allowing customers to view products, search for them, and view detailed information.

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## 1. Frontend Tasks

### 1.1 Browse Products

- **Task Description:**  
Design and implement the functionality to allow customers to browse products.
  - **Subtasks:**
    - Design the layout for product categories (e.g., Men, Women).
    - Implement navigation between categories.
    - Display a grid or list of products for each category.
    - Ensure mobile responsiveness of the product category page.
  - **Assigned To:** Merna
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### 1.2 Implement Product Search

- **Task Description:**  
Develop a search bar that allows customers to search for products by name, description, or tags.
  - **Subtasks:**
    - Create the search bar UI.
    - Display search results dynamically below the search bar.
    - Ensure search results can be sorted by relevance or other parameters (e.g., price, rating).
    - Ensure the search bar is accessible and mobile-friendly.
  - **Assigned To:** Mohamed
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### 1.3 Display Product Details

- **Task Description:**  
Design and implement the product details page to allow customers to view detailed information about a selected product.
  - **Subtasks:**
    - Create the layout for the product detail page, including product images, name, description, and price.
    - Display available sizes, colors, and customer reviews on the product detail page.
    - Implement the "Add to Cart" button.
    - Add product availability information (e.g., in stock or out of stock).
    - Ensure the page is responsive and adjusts correctly on mobile devices.
  - **Assigned To:** Mohamed & Merna
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## 2. Backend Tasks

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### 2.1 Develop API for Browsing Products by Category

- **Task Description:**  
Create the API endpoints that fetch products based on the selected category.
  - **Subtasks:**
    - Implement an endpoint to retrieve a list of products for each category.
    - Ensure the API supports pagination to handle large product catalogs.
    - Optimize the endpoint for fast querying.
  - **Assigned To:** Sara
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### 2.2 Implement Product Search API

- **Task Description:**  
Create an API endpoint for searching products by name, description, or tags.
- **Subtasks:**
  - Implement the search functionality to query product names, descriptions, and tags.
  - Return search results based on keywords provided by the user.
- **Assigned To:** Khetam

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## 2.4 Create Product Detail API

- **Task Description:**  
Develop an API endpoint to fetch detailed product information for a selected product.
  - **Subtasks:**
    - Implement the endpoint to return detailed product data, including images, description, price, size options, and stock availability.
  - **Assigned To:** Sara & khetam
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## 3. Database Tasks

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### 3.1 Product Catalog Database Structure

- **Task Description:**  
Ensure the database schema supports categories, sizes, colors, prices, and product inventory for searching and filtering functionality.
  - **Subtasks:**
    - Create the necessary database tables for product categories, sizes, colors, tags, and stock.
    - Ensure product data can be efficiently queried for searching and filtering.
  - **Assigned To:** Moaz
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### 3.2 Optimize Search Queries

- **Task Description:**  
Optimize the database queries for searching and filtering products to ensure fast performance.
- **Subtasks:**
  - Create indexes on relevant columns (e.g., product names, tags, categories).
- **Assigned To:** Moaz