**Internship Report: Table Filter**

1. **Task Description**

Implement a search component that filters a list of items based on user input.

1. **Task Output Screenshot**

A screenshot of a screen

Description automatically generated

1. **Algorithm Used in Task:**

**Filtering Logic:**

**Category Filtering: Filter items based on the selected category (e.g., men, women, all). The algorithm checks the selected category and displays the corresponding items.**

**Search Filtering: As the user types in the search bar, a search algorithm compares the input with the item names or descriptions, filtering the list to match relevant results.**

**Sorting Logic:**

**Price Sorting: Items are sorted based on the price in ascending (low to high) or descending (high to low) order, depending on the user's selection.**

**Pagination Logic:**

**The algorithm divides the total items into smaller groups (pages) and displays a subset of items per page. When the user navigates between pages, the corresponding set of items is displayed while maintaining filters and sorting.**