**Q: 15**

**Title:**

L2 - Search and Filter Products with Fetch

**Problem Statement:**

Build an advanced product search and filtering application that fetches data from **FakeStoreAPI** (https://fakestoreapi.com/products). The application should allow users to:

1. **Search**: Enter a keyword to search products by title.
2. **Filter**: Filter products by category using a dropdown menu.
3. **Sort**: Sort products by price in ascending or descending order.

**Key Requirements:**

1. Fetch product data dynamically from the API when the page loads.
2. Implement a search bar to filter products by title in real time.
3. Use a dropdown menu to filter products by category (categories can be fetched dynamically using https://fakestoreapi.com/products/categories).
4. Add sorting functionality to arrange products by price (ascending or descending).

**Bonus:**

* Display the product count based on the current search/filter criteria.

**Example Workflow:**

1. On page load, fetch and display all products.
2. If the user types "shirt" in the search bar, display only products with "shirt" in the title.
3. If the user selects "electronics" from the dropdown, show only products in that category.
4. If the user selects "Sort by Price: Low to High," display the products sorted accordingly.

**Submission Guidelines:**

* Submit your Masai Git directory link with the solution.
* Include a README.md file explaining your implementation, along with comments in the code.