



COLLEGE CODE : 9530

COLLEGE NAME : ST.Mother Theresa Engineering College

NM-ID ROLL NO :7E218C3BFA487AFB48C4D7838988A650

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Completed the project named phase 3

PROJECT NAME : PRODUCT CATALOG WITH FILTERS

SUBMITTED BY,

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1. Project Setup

Initialize the project (React/Angular/Vue, or backend framework if needed).

Install dependencies (UI components, state management, API libraries).

Set up GitHub repository and branch strategy.

2. Core Features Implementation

Product Catalog Page

Display a grid/list of products with image, title, price, and description.

Filters

Category filter (e.g., Electronics, Clothing, Furniture).

Price range filter (slider or min/max input).

Brand filter.

Rating filter (optional for MVP).

Sorting (Optional MVP enhancement)

Sort by price (low → high, high → low).

Sort by popularity or newest first.

3. Data Storage (Local State / Database)

Local State (for MVP): Hardcoded product JSON stored locally.

Database (Next Step): Use MongoDB, Firebase, or SQL to fetch products dynamically.

4. Testing Core Features

Test filter combinations (e.g., Electronics + under \$500).

Ensure filters can be reset.

Check product listing updates dynamically without refresh.

5. Version Control (GitHub)

Push incremental commits (setup, catalog UI, filter logic).

Use feature branches for each filter.

Merge via pull requests for better tracking.