CA - Report

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Class Roll No	**D15A_28**
D.O.P.	**20/03/2025**
D.O.S.	**27/03/2025**
Sign and Grade	

TITLE : DMart

PROJECT DESCRIPTION

The **DMart Clone** project is a **full-stack e-commerce application** developed using **Flask, MongoDB, React, and TypeScript**. It simulates an online grocery shopping platform similar to DMart, allowing users to browse products, add them to a cart, and manage their orders efficiently.

The **backend** is built using **Flask (Python)** to handle API requests and communicate with the database. **MongoDB** is used for storing product details, user information, and order data. The **frontend** is developed using **React with TypeScript**, ensuring a responsive and dynamic user interface.

TECHNOLOGIES USED

- **Frontend:** React, TypeScript, Tailwind CSS
- **Backend:** Flask (Python)
- **Database:** MongoDB (Atlas)
- **Development Tools:** VS Code, Postman, Git

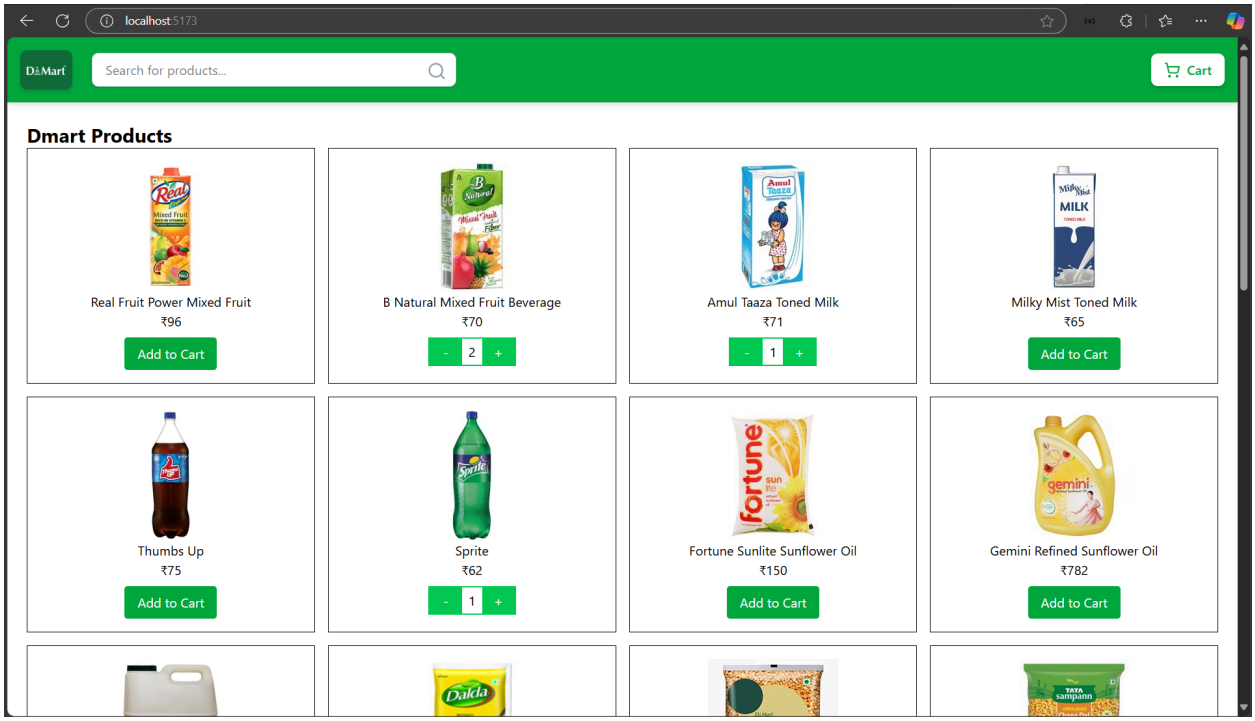
FEATURES IMPLEMENTED

- **Product Listing:** Displays a variety of products dynamically from the database.
- **Shopping Cart:** Users can add, remove, and modify items in their cart.
- **Responsive UI:** Optimized for both desktop and mobile devices.

GITHUB LINK - https://github.com/Anuprita2022-26/dmart_flask

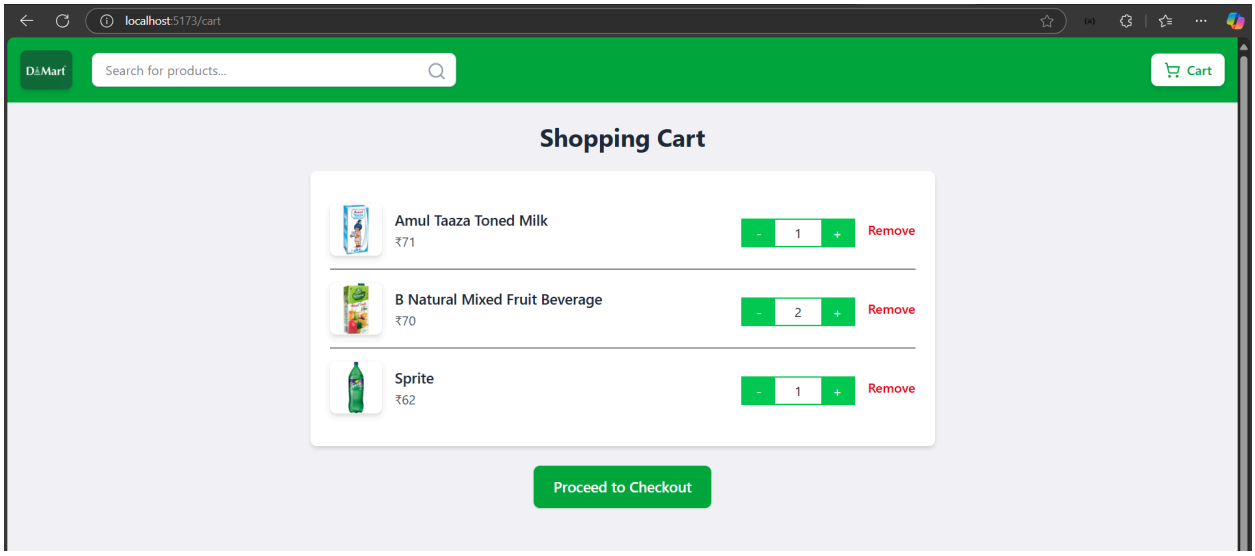
OUTPUT

a) HomePage



This screenshot displays the main shopping interface where users can browse products.

b) Cart Page



This screenshot shows the shopping cart where users can view selected products.

CONCLUSION:

The **DMart Clone** project showcases the integration of **React, TypeScript, Flask, and MongoDB** to build a **feature-rich e-commerce platform**. It effectively implements core functionalities like product browsing, cart management, and order tracking. The project highlights expertise in **frontend development (React + TypeScript), backend API handling (Flask), and database management (MongoDB)**, making it a valuable real-world application of full-stack development concepts.