

CA - Report

Name of Student	Anuprita Mhapankar
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

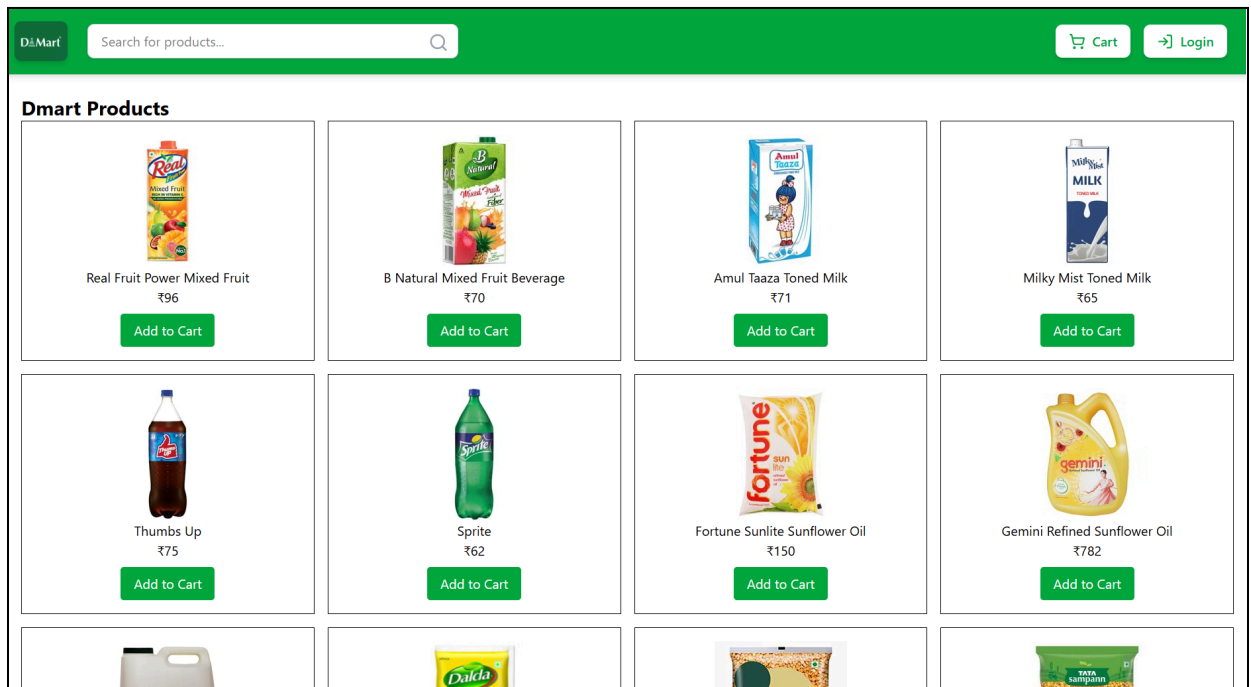
FEATURES IMPLEMENTED

- **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

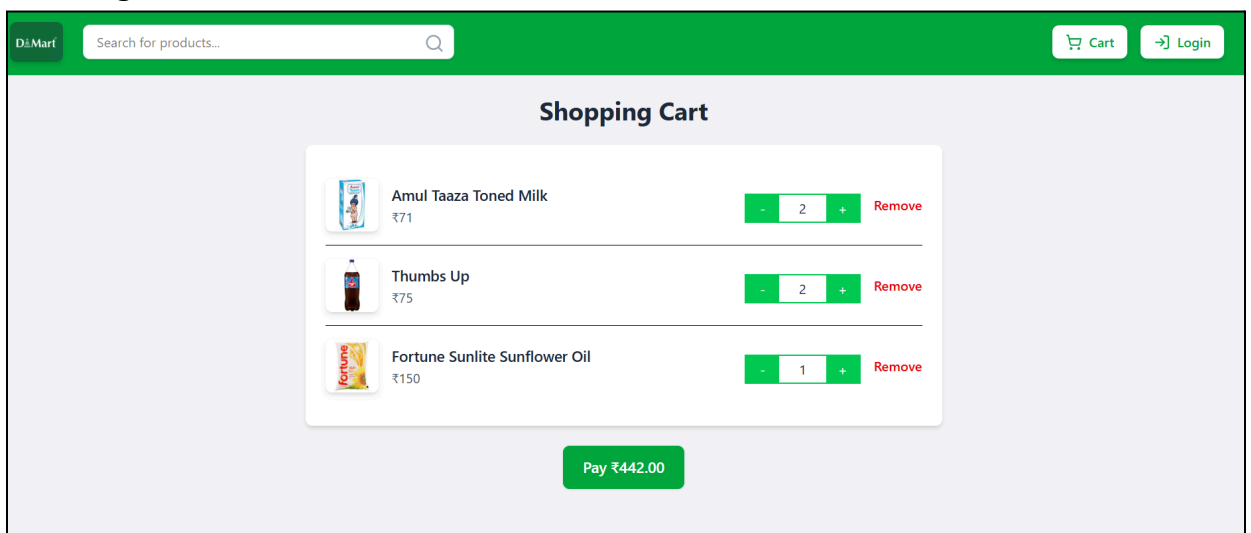
OUTPUT

a) HomePage



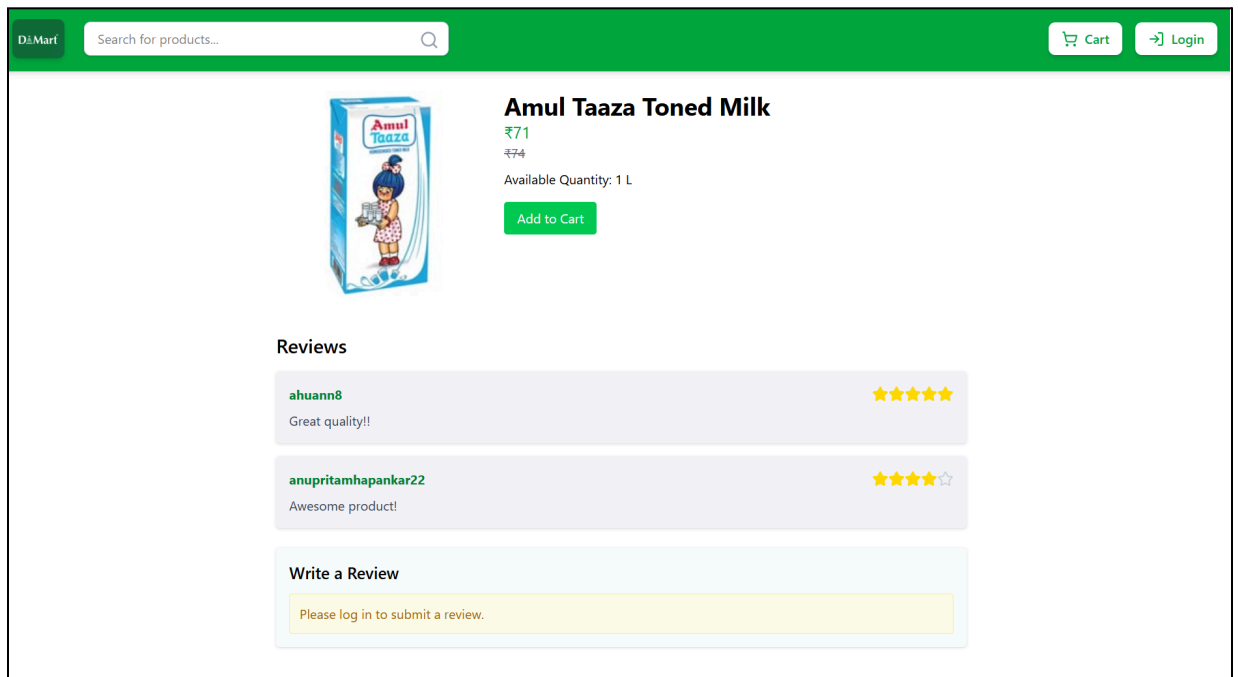
This screenshot displays the main shopping interface where users can browse products.

b) Cart Page



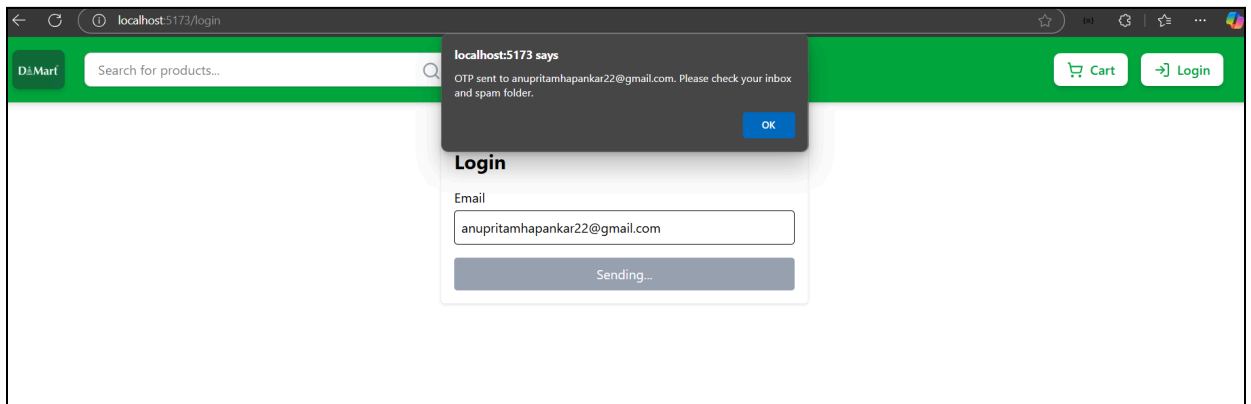
This screenshot shows the shopping cart where users can view selected products.

c) Product Detail Page



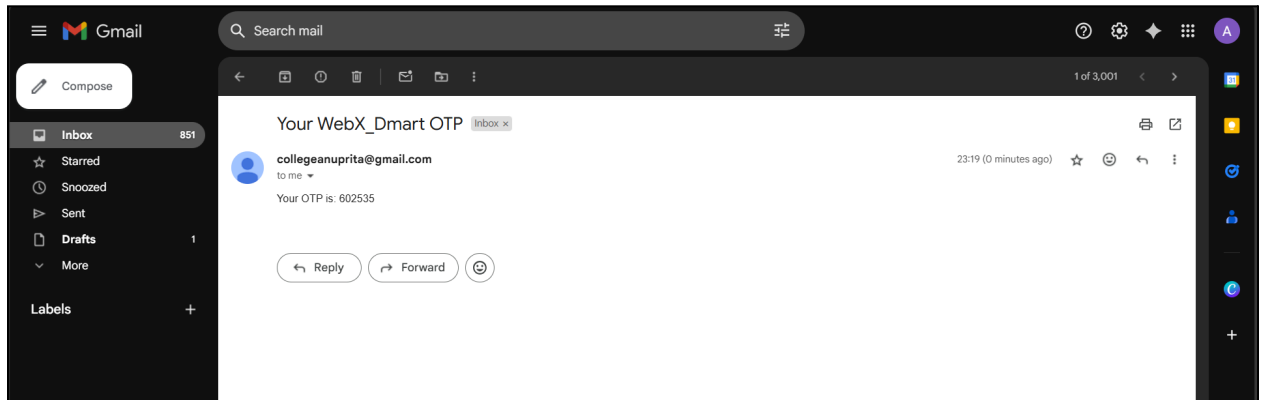
This screenshot shows the detailed view of a product, including product information and user reviews. Users can also submit their own reviews here.

d) Login Page



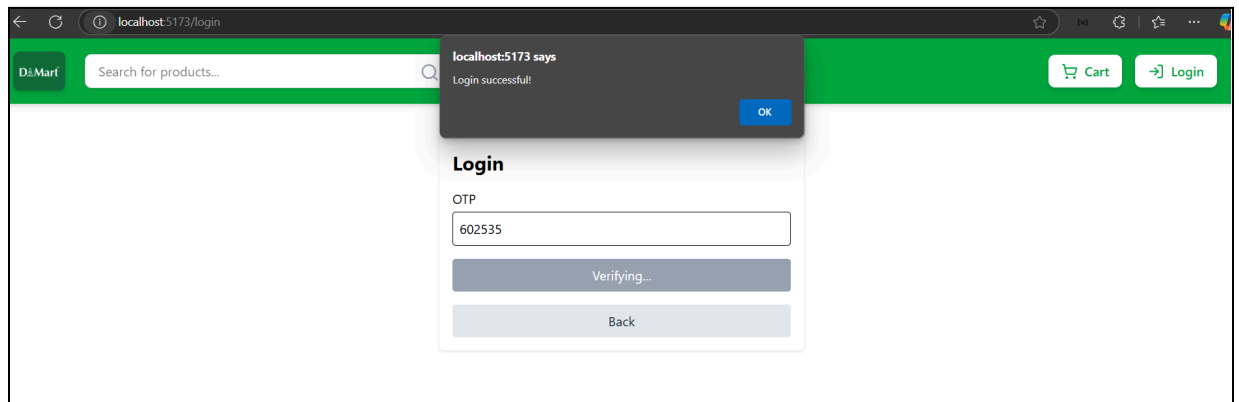
This is the screenshot of the login page, where users enter their credentials to access their account.

e) Received Mail with OTP



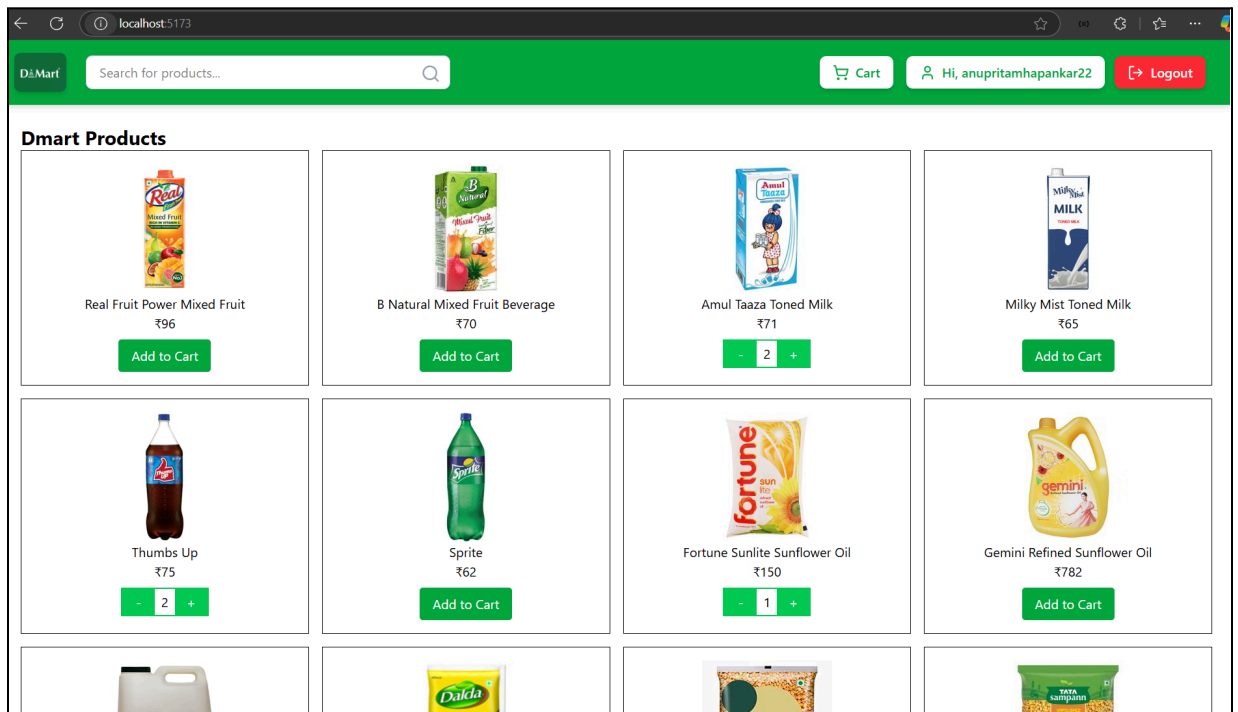
This screenshot shows the email received by the user containing the One-Time Password (OTP) for verification.

f) Verify OTP Page



This screenshot displays the page where users enter the OTP received via email to verify their identity.

g) Home page After Login



This screenshot shows the home page as it appears after a successful login.

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.