Project Report

TRANSACTIONAL WEB APPLICATION

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Problem Statement

India's exports are in greater demand as the Indian community in Canada expands. However, there aren't many retailers who in the market that import and sell these products, making it difficult for buyers to buy a certain item because they have to visit each store separately since not all of them stock that item. Also, it is challenging to visit each store because it takes a lot of time and is difficult to commute to because of their location. The fact that a newcomer is unfamiliar with the area and with public transportation can make it difficult for them to visit these shops.

Problem Solution

We propose creating a website that will offer a platform for searching all the items in one location, allowing clients to browse products from various categories in accordance with their needs and quickly make purchases using our website. They won't have to visit each store separately because of our website, saving them both time and money.

Features of the Application

- Various categories of products
- User accounts
- User-friendly navigation
- Shopping cart and checkout button
- Product Searching
- Superior customer support

Use Case Diagram

Use Case - Customer
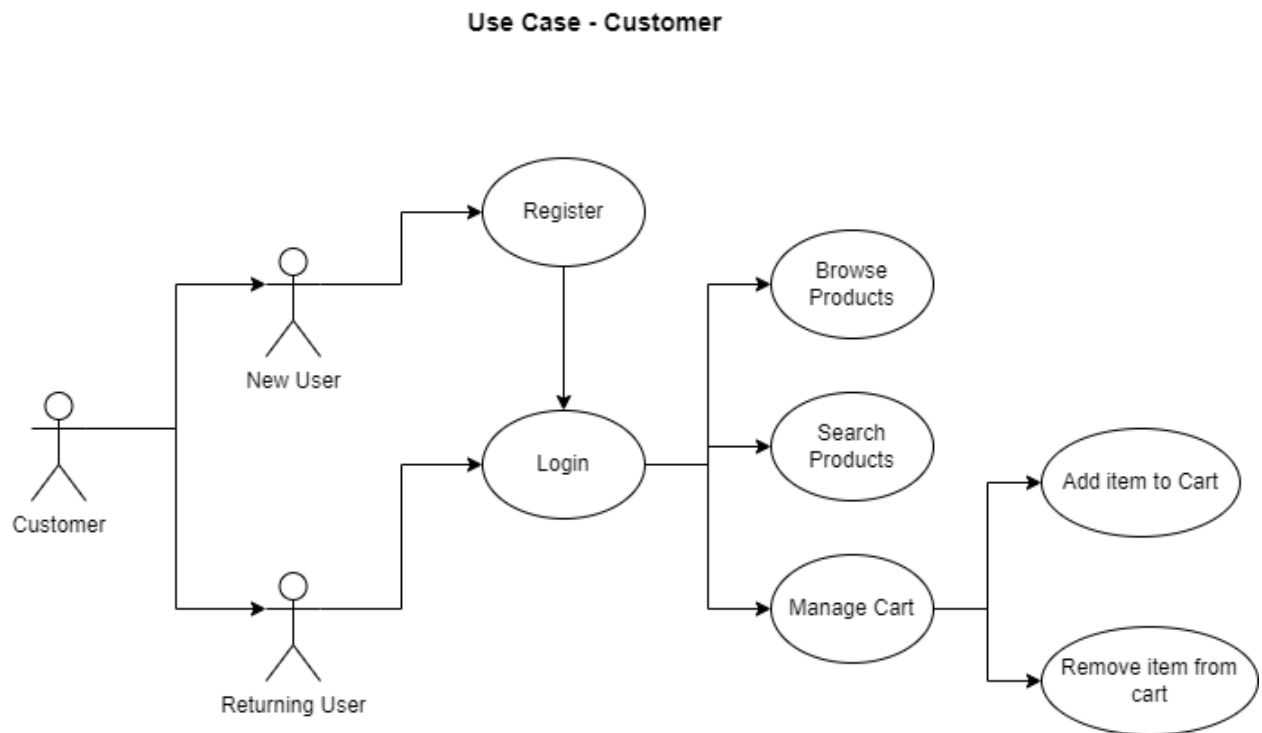
The above diagram is the use case for customer-user. In this, the customer will first log in to the website if he has already registered an account on this website otherwise the customer has to register the account from the registration page and after that, he will be able to log in. After logging in, the user can browse through various categories of products on the home page. Upon viewing the products, the user can also add the desired items to the cart and remove the unwanted products. Moreover, the products can also be searched using the search box. In the end, there is a logout button for logging out of the website.
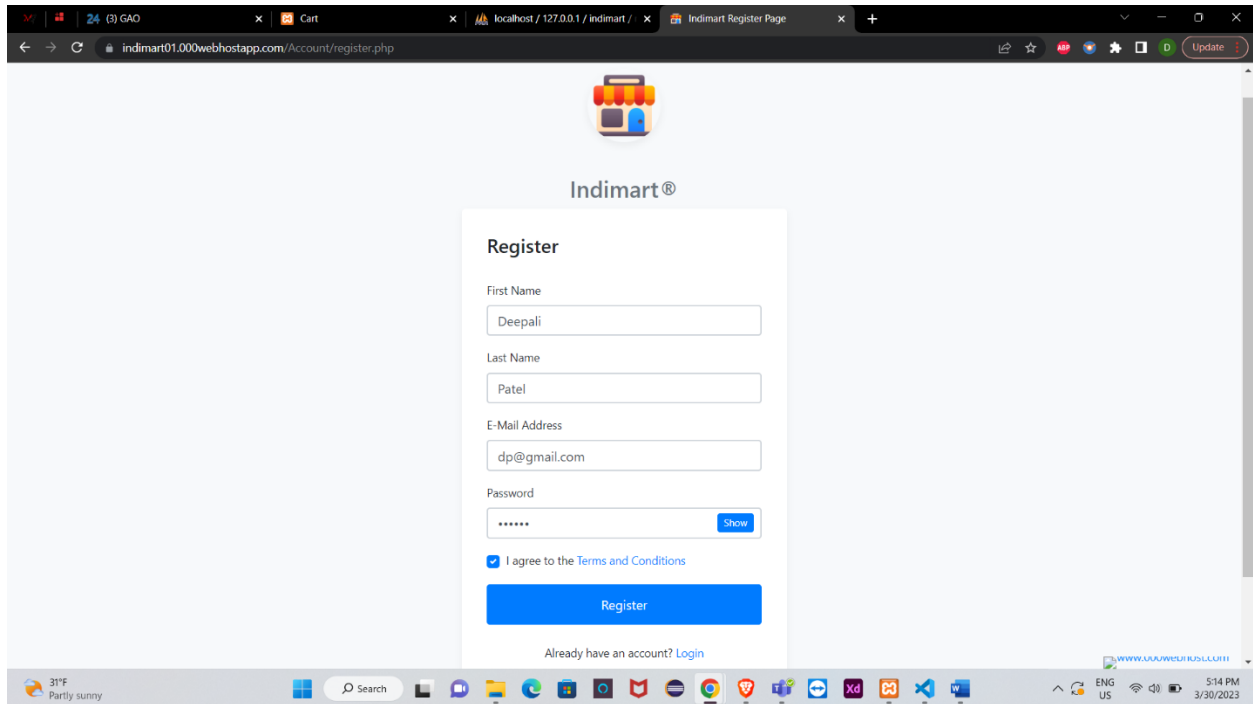
Use Case - Admin
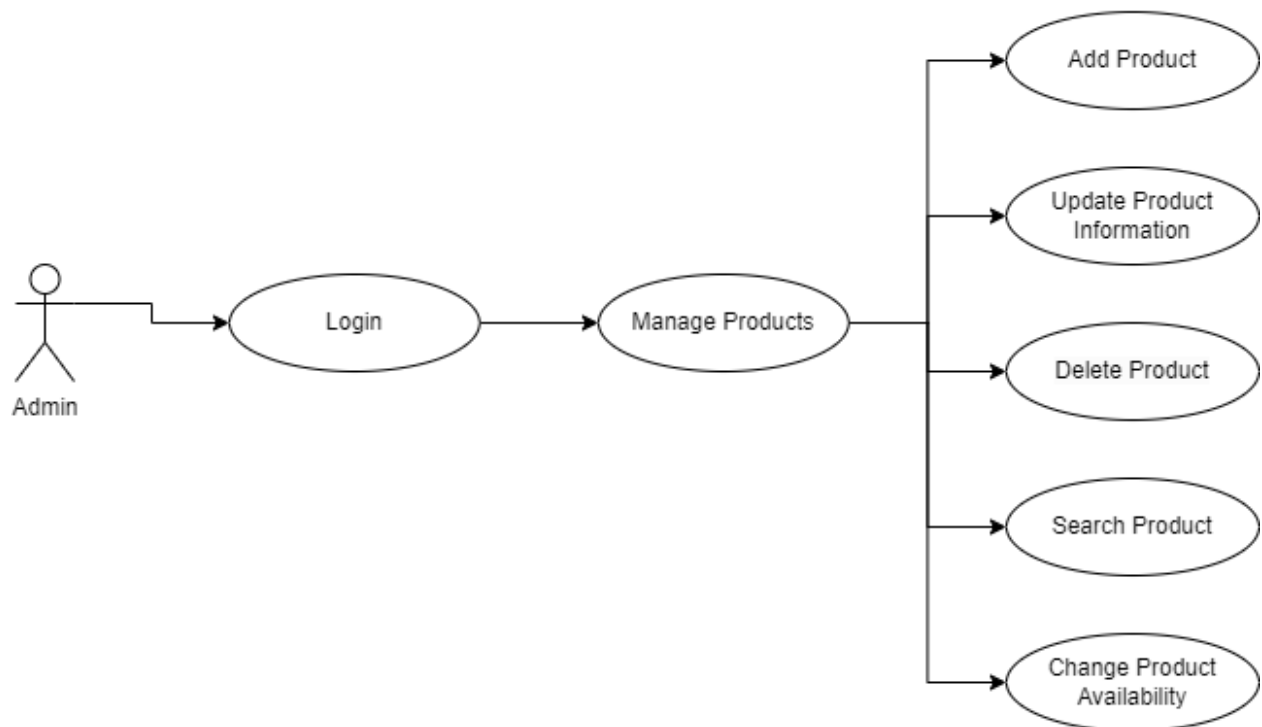
For the backend operations of the website, there is an admin login. The admin manages all the operations in relation to the products. The admin can log in using his username and password. Admin will be able to manage the products. The operations that are performed by the admin are Adding products, Updating Product information, Changing Product Availability, and Deleting and Searching products from the list. Lastly, after performing the required action, he can log out from the website using Logout button.

User Stories

As a	I want to	So that	Test criteria
An admin	To login	Be able to insert username and password to login into the application	Must enter valid username and password
An admin	Add product details	View added products and can add new products as per availability of new stock	Login to admin panel page using admin login credentials and add the product after clicking 'Add New Product' button. Product can be seen on the list of admin home page after it is added.
An admin	Delete Product	From the list, the admin can delete products which are no longer needed	Go to Admin home page and delete the product from the list by clicking 'Trash' icon in the Action tab.
An admin	Update product information	Update product information using the update form	Go to Admin home page and update the product information from the list by clicking 'Pencil' icon in the Action tab. Edit the information on the update form and save the changes.
An admin	Change the availability of product	Change the product availability of products in the update form	Go to update form using Pencil icon, update the status of the product as per availability and save changes. Go to admin home page and Customer home page to see the changes.
An admin	Search Product	Search products from the list by typing keywords	Go to Admin home page, enter the keywords for search in the search box and view searched products
A Customer	To login	Be able to insert username and password to login into the website	Must enter valid username and password given by admin.
A Customer	To Register	Register the user account for the first-time user	Go to the Register section in the login page, enter the user information and register to the website

A Customer	Browse Products	View different products in 'Our Products' section using categories option	On the home page, go to Our products section, and view different products by selecting the categories
A Customer	Search Products	Search products using keywords in the 'Our Products' section	Go Our Products Section on home page, Enter the keywords in the search box and look for the products.
A Customer	Add product to cart	Users can add products to the cart from the product card	Go to Our Products section, add the products to the cart by clicking the Add to Cart button.
A Customer	Remove Product from cart	Users can remove products from the cart	Go to My cart page by clicking Cart icon in navigation bar, view the added products and remove items that are not needed

Implementation

Register Page

Login Page
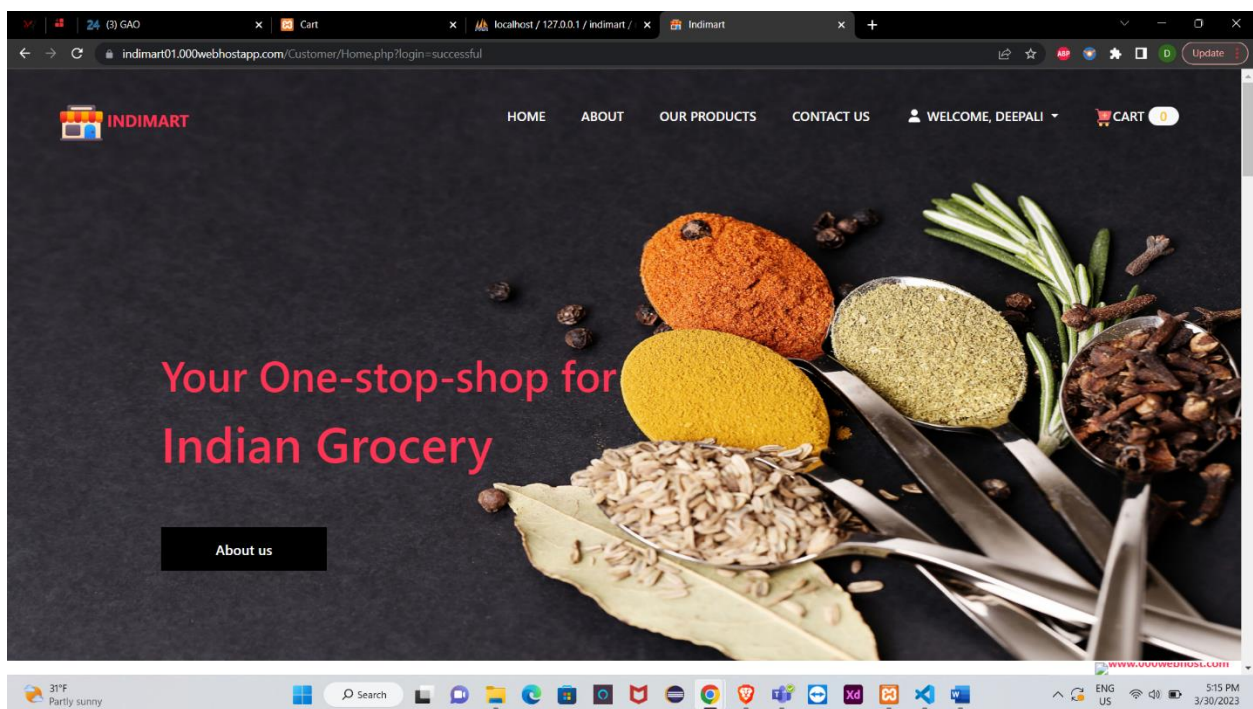
Home Page
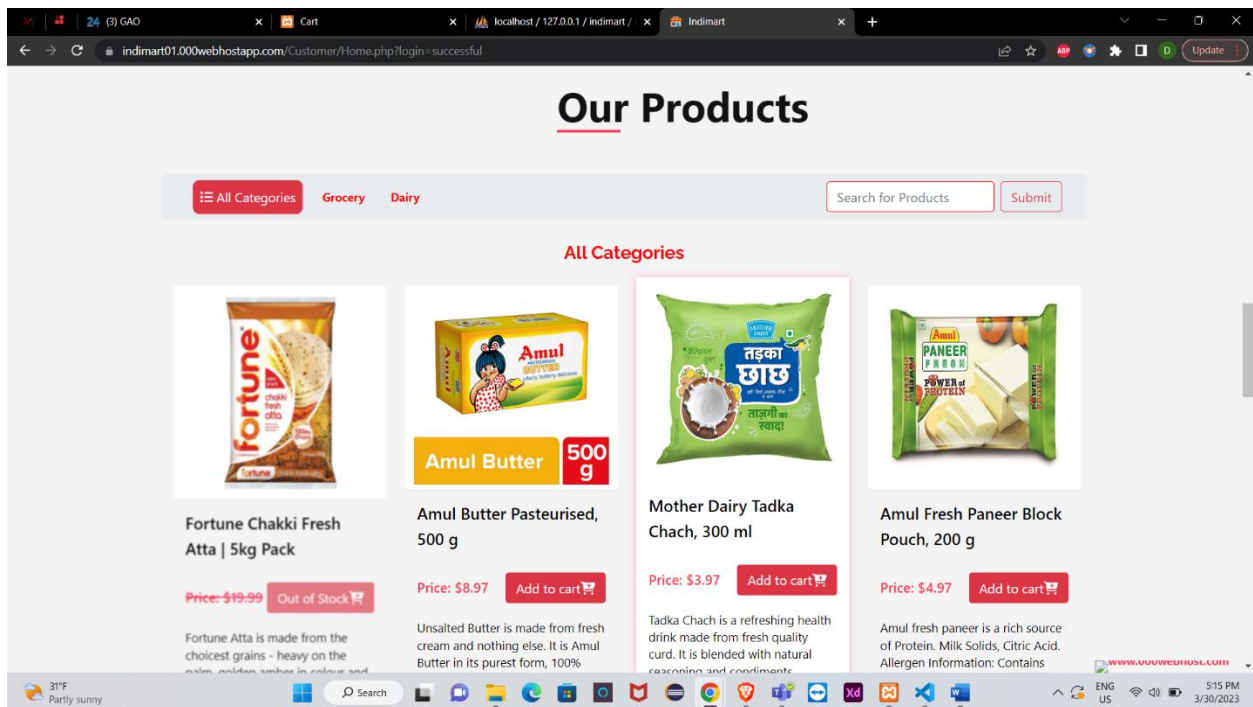
Our Products
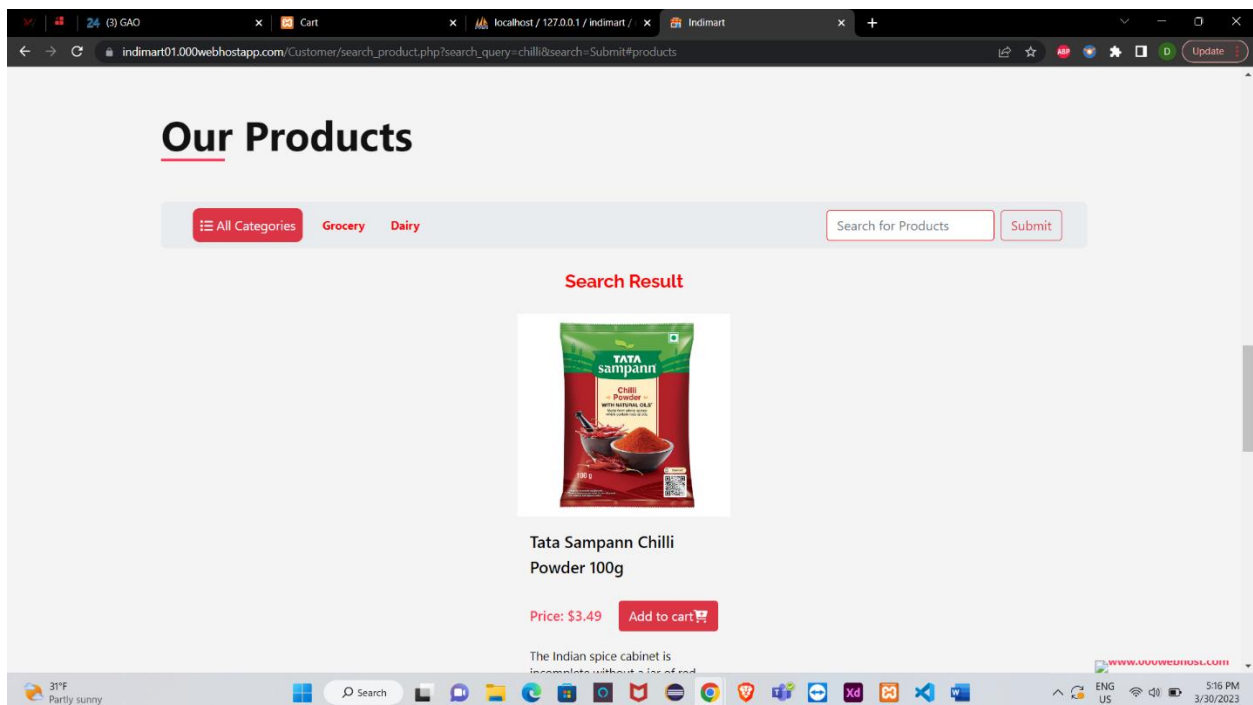
Product Search
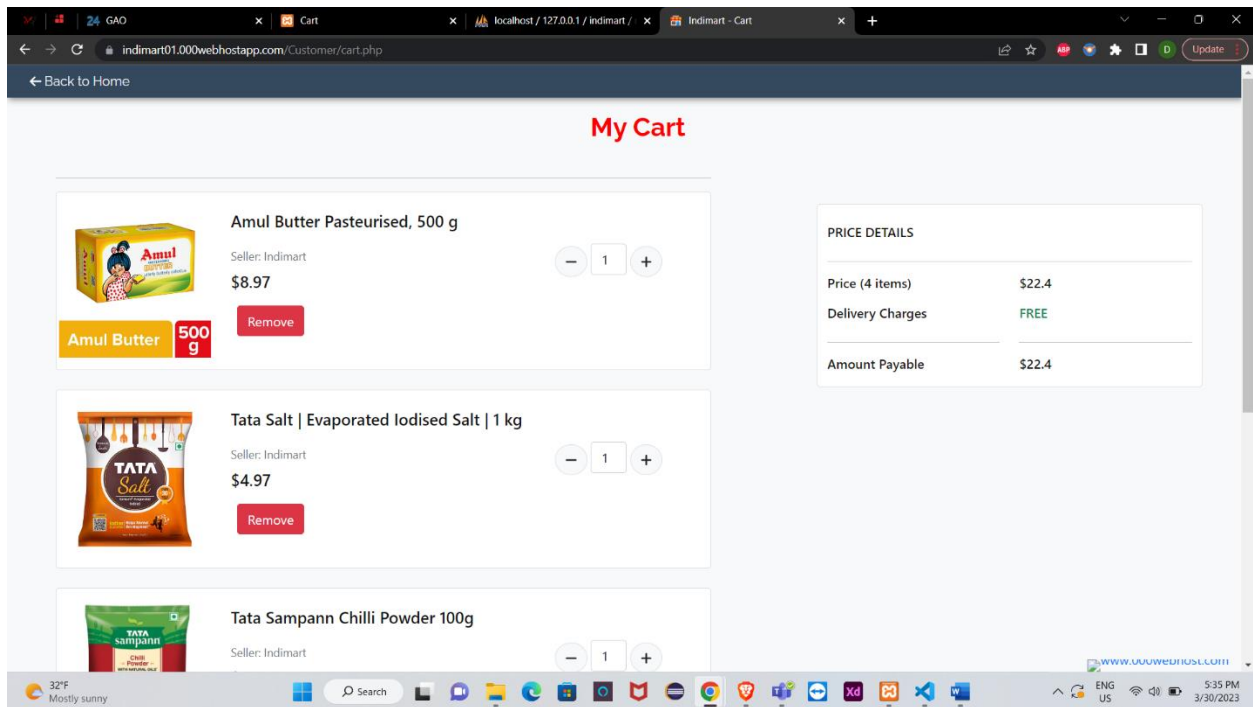
My Cart
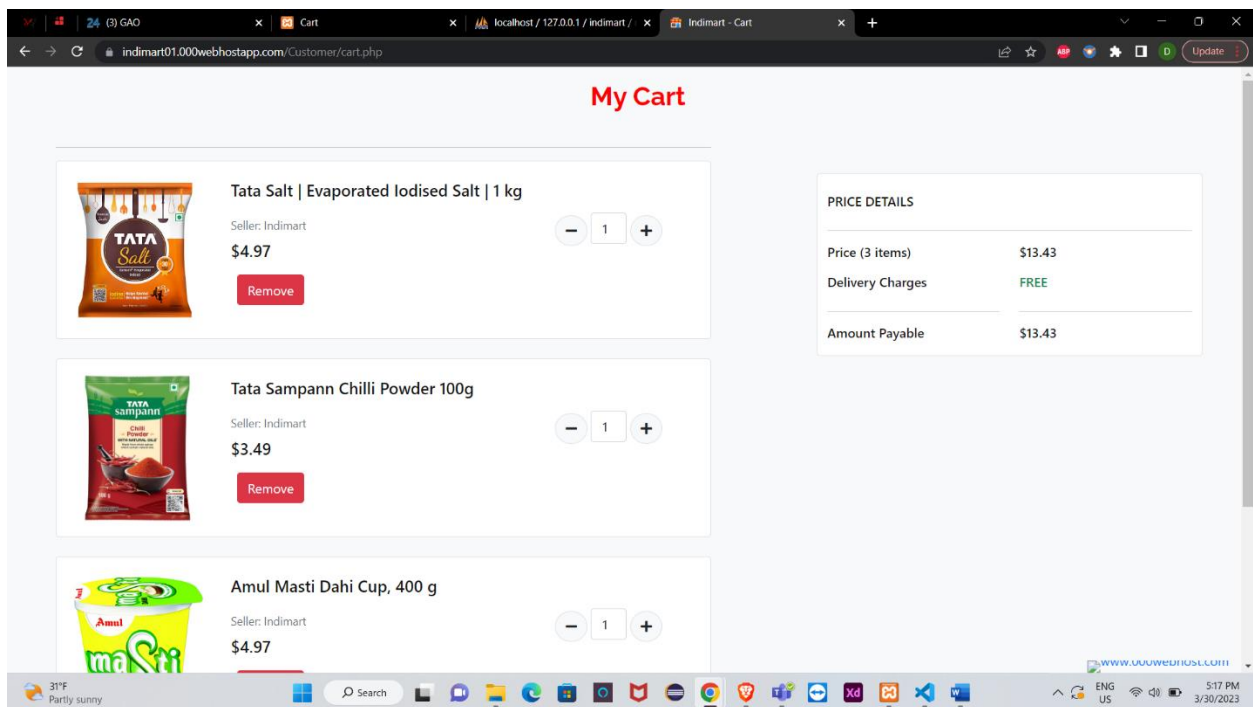
My cart after Remove

Admin – Home page

Admin – Product Search

Admin – Add Product
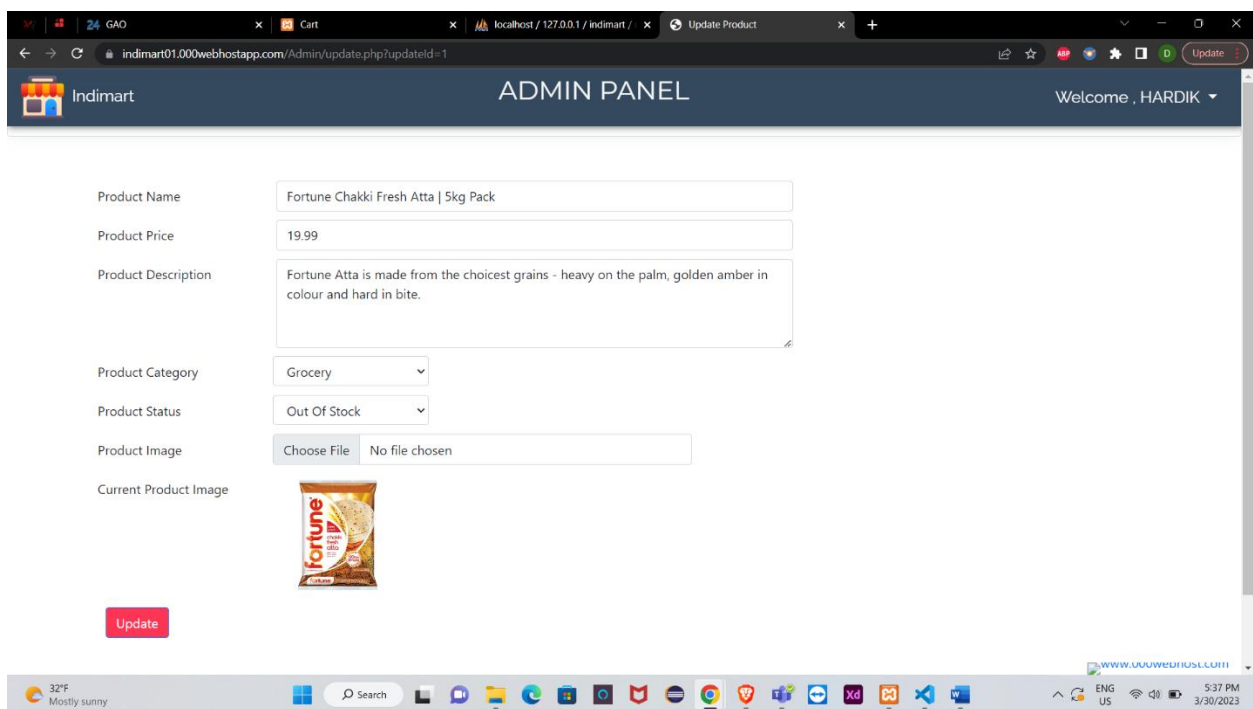
Admin – Update Product

Difficult Task to Implement

The tasks that we found to be most difficult were:

1) Pagination – This was difficult to implement as we had to link different pages to a single page and that too with the increasing number of pages.

2) My Cart – This was difficult because we implemented this using SESSION where we used product id to show items in the cart using an array.

THANK YOU