Abstract

The Online Shopping application is a web-based tool for online shops. This application's major goal is to make it interactive and simple to use. It would make product searching, viewing, and selection easier. It has a powerful search engine that allows users to look for products that are tailored to their needs. The search engine offers a simple and convenient way to search for products, allowing users to search for products interactively while the search engine refines the products accessible based on their input. The user can then view each product's detailed specification.

They can also read product reviews as well as create their own. The application also includes a drag-and-drop feature, which allows users to add products to their shopping cart by simply dragging them into the cart. The main focus is on creating a user-friendly search engine that successfully displays the needed results and features drag-and-drop functionality.

Introduction

E-commerce is quickly becoming a widely accepted and used business model. More and more businesses are developing web sites that allow them to conduct commercial transactions over the internet. It is fair to argue that online purchasing is growing more common. The goal of this project is to create a general-purpose e-commerce store where anyone may buy any product (such as shirts, pants etc.) from the comfort of their own home over the Internet. However, for the purposes of implementation, this article will focus on an online shopping cart store.

Customers can browse the inventory and select things of interest at the Shopping cart store, an online virtual store. A shopping cart can be used to collect the specified items. The goods in the shopping cart will be displayed as an order at the moment of checkout. More information will be required at that time to complete the transaction. The customer will typically be prompted to fill out or select a billing address, a mailing address, a shipping option, and payment information such as a credit card number. As soon as the order is placed, the buyer receives an e-mail notification.

The Shopping cart store is always adding new items and services to ensure that it has a product portfolio that is relevant to the market. Private and business users can order the Shopping Cart Store service's selected products online swiftly and easily. To use the load writing technique, the customer must first register and acquire a login for the name of the purchase. It's a web-based application.

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Methods

This project entails the creation of an e-commerce website that sells various types of presents online. It shows the user a catalog of many types of gifts that may be purchased at the store. A shopping cart is supplied to the user to make online purchases easier. With a backend database, a middle tier of Microsoft Internet Information Services (IIS) and ASP.NET, and a web browser as the front end client, the system is constructed utilizing a 3-tier method. The shopping cart store concept was created to help businesses expand and grow faster. Customers will be able to view and order things from this site from anywhere in the world. The website sells a variety of gifts.

Many products and services can be acquired through this website. Various parameters can be used to filter the products. Initially, it was determined that all of the list elements would be pre-defined. However, additional product types may be added over time. As a result, the values for the list of product kinds are

dynamically loaded from the database. It was also determined at the outset to include a drop-down list for product and product category. However, this would restrict the user's ability to filter products by category. By selecting the product and clicking the add to cart button, a product can be added to a shopping cart. A button might be pressed to remove items from the cart. Products can be removed from the cart to maintain symmetry and convenience of use by clicking the remove item button.

By clicking the add to cart button, you can add a product to your shopping cart. Initially, it was decided that when a product was dragged and dropped into the cart, the summary label could be updated on the client-side without making a server call, and then the session variables (Shopping cart) could be updated later. When the user's internet connection is lost, this will result in data loss. When a product is added to the cart, a web service is invoked, which updates the shopping cart's session variables and recalculates and sends the cart summary back to the client. This would increase the application's dependability.

Results

Any Ecommerce application can benefit from this application. It's simple to use because it makes use of the user dialog's GUI. Screens that are easy to use are available. The software is simple to use and dynamic, making online purchasing a pleasurable experience for users. It has undergone extensive testing and implementation.

1. A search module for Orders, Products, Categories, and Customers has been established.

2. The Online Shopping Store System is a browser-based application that allows users to manage product data, cart data, and payment data.

3. All products, orders, and cart information will be accessible to the admin user.

4. Admin has the power to edit, add, delete, and update records for Payment, Category, and Customer.

5. Controlling the cart, category, and products is possible via a web interface.

Complete DFD of Online Shopping

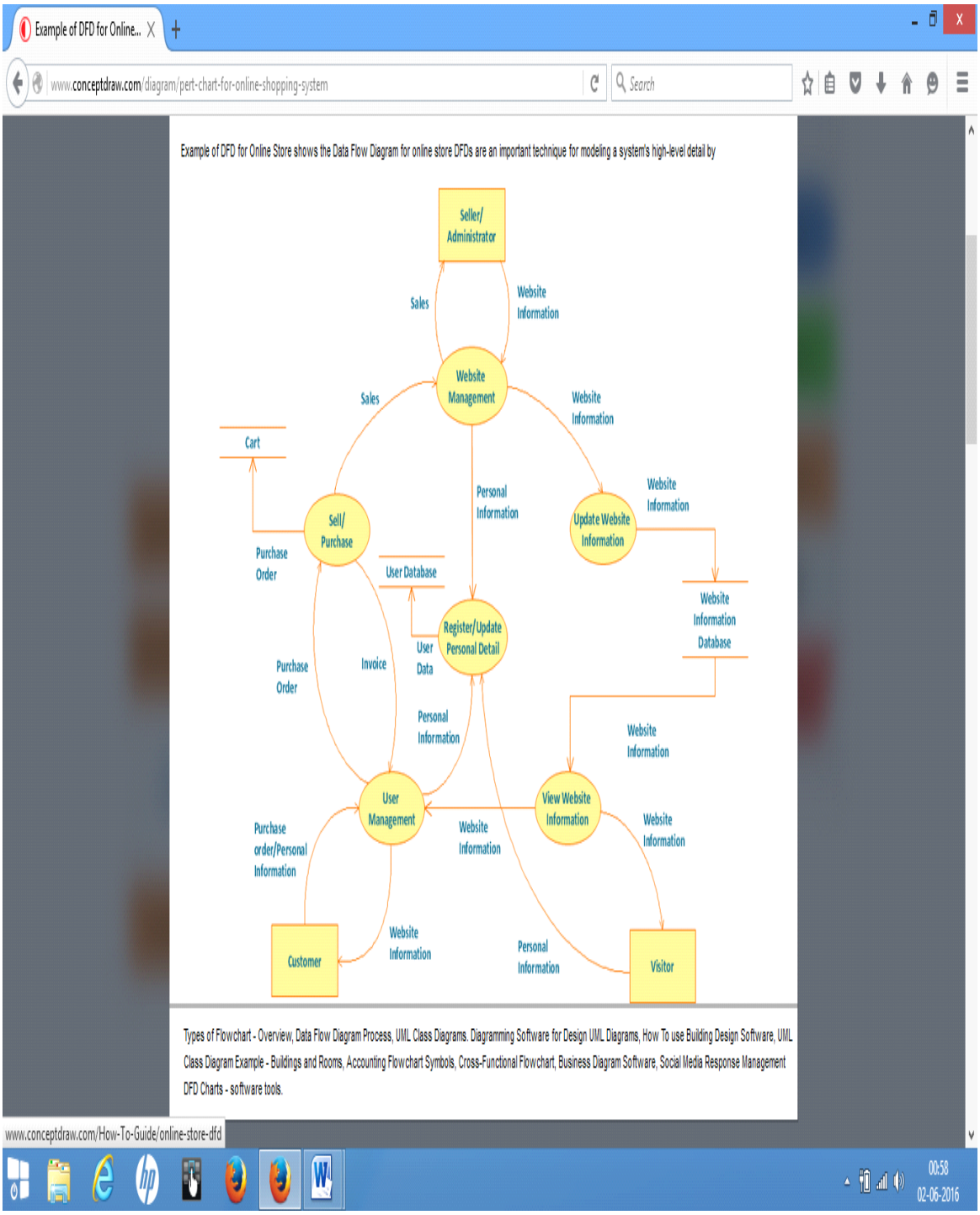

fig -1(flow chart of website)

Screen Shots

Admin Login Page: Admin Can login into the system by registering the email address.

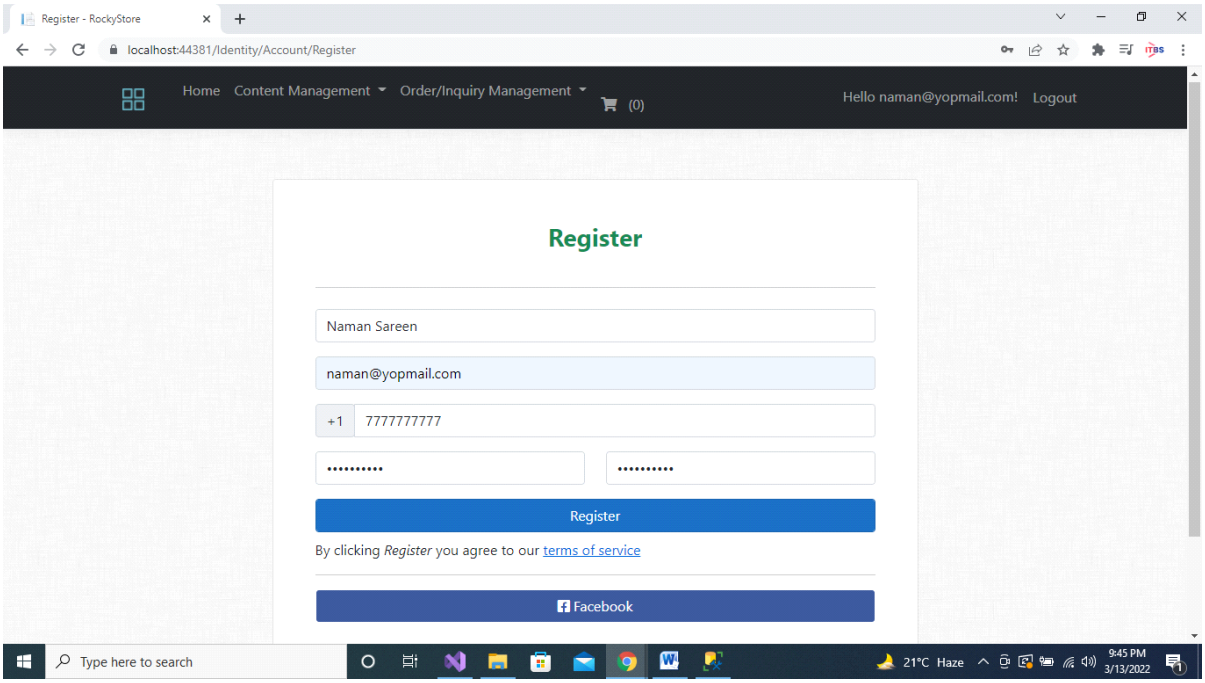

Fig 2(login page)

Manage Admin Account

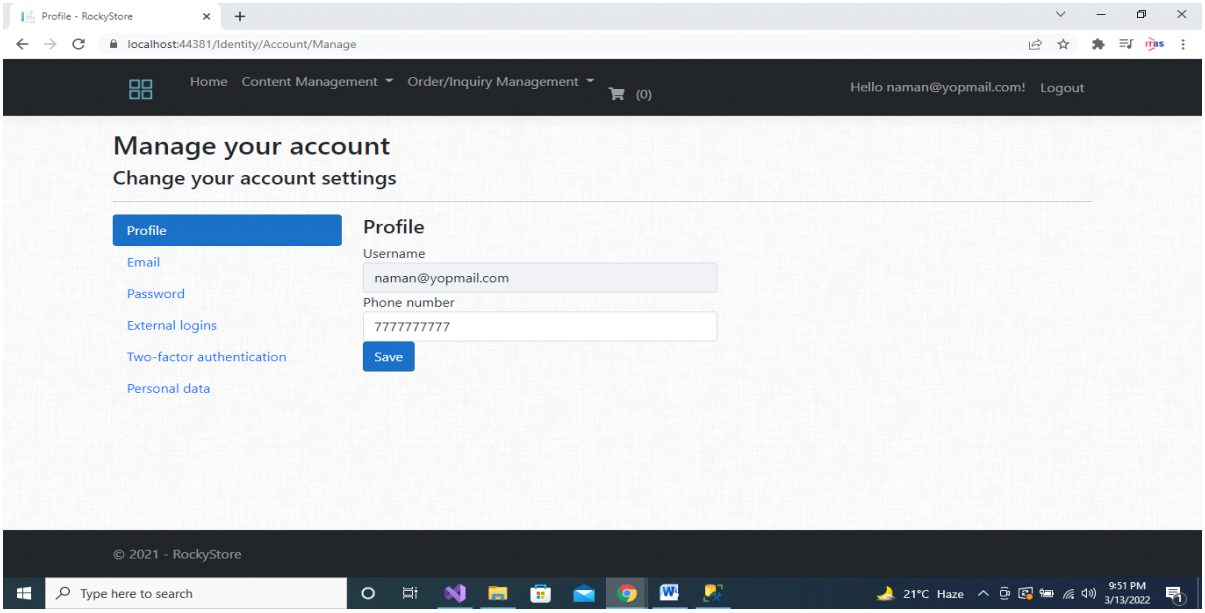

Fig 3(Admin Account)

Add Category

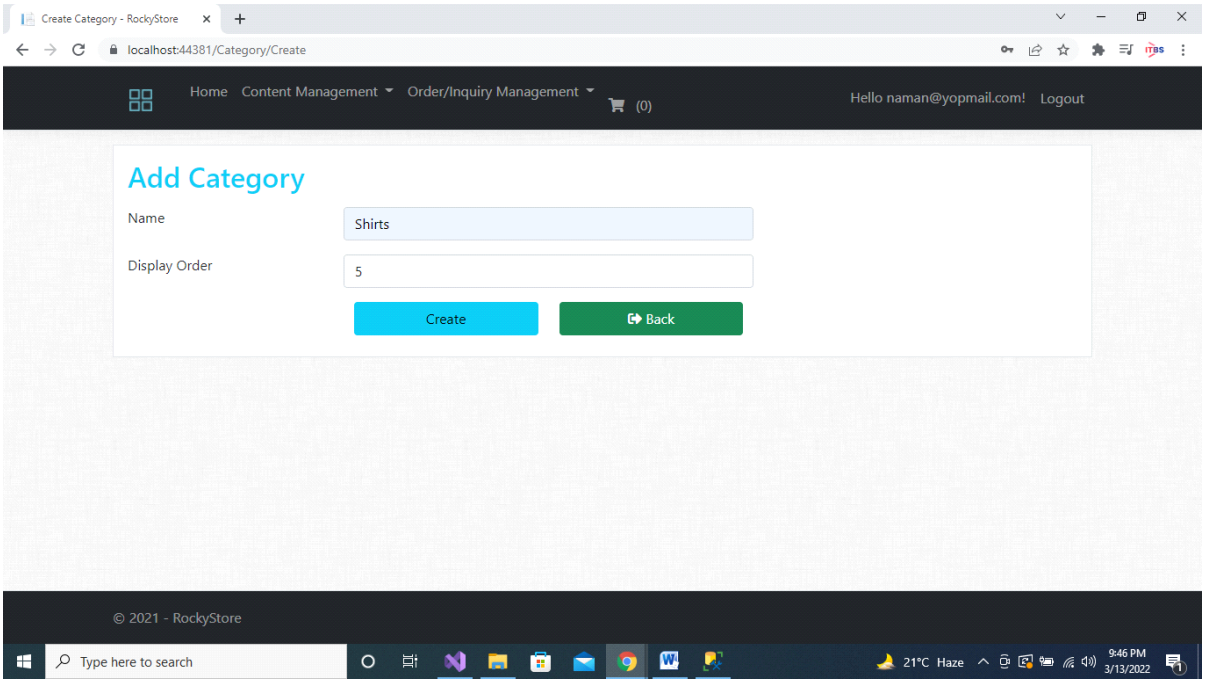

fig 4(Category page)

List Category

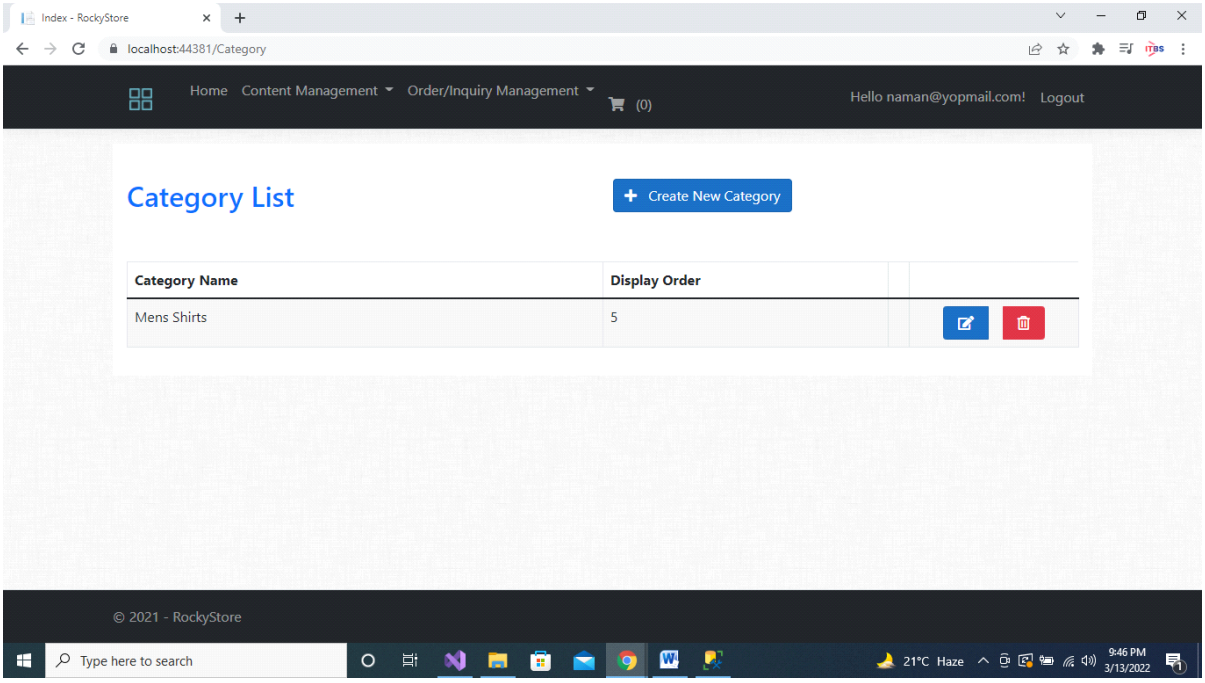

fig 5 (category list)

Edit Category

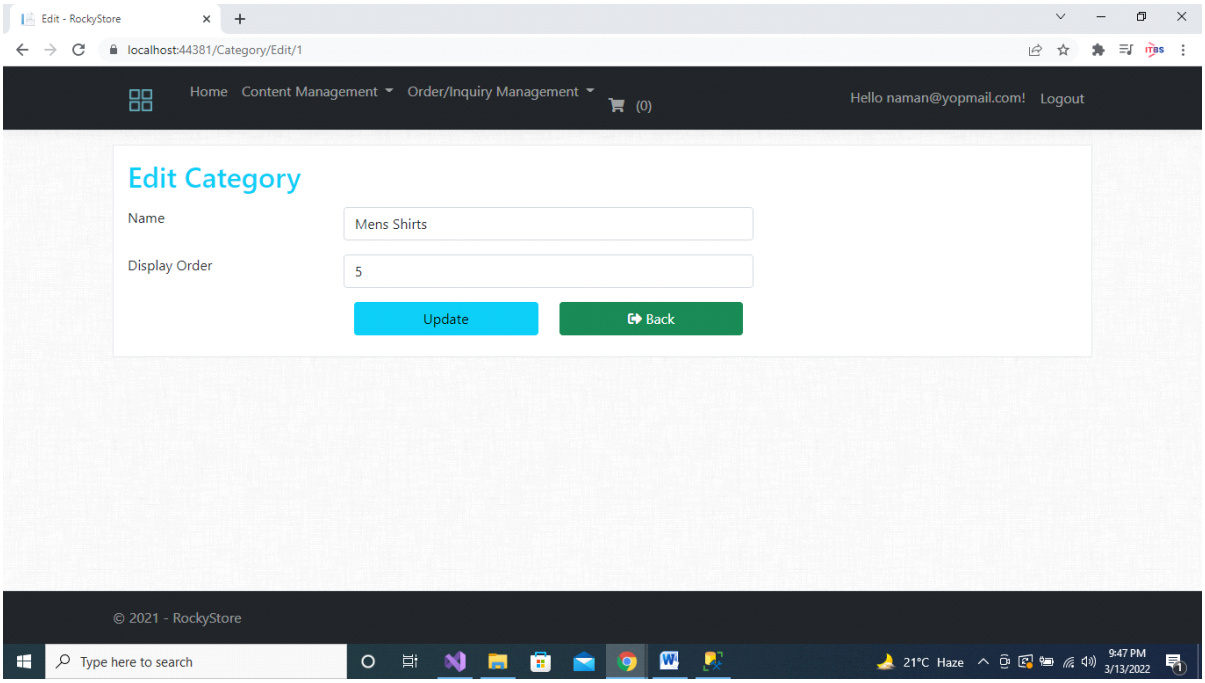

fig 6(Edit list)

Delete Category

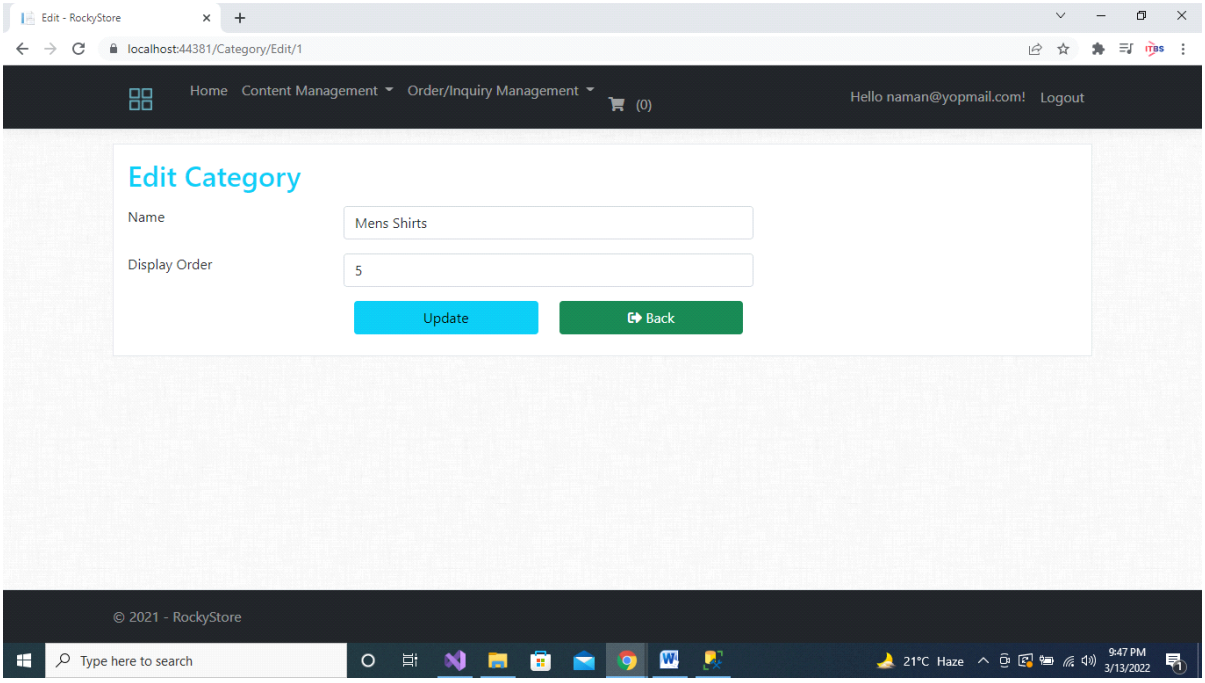

Fig 7(delete list)

Create Product by choosing the Category

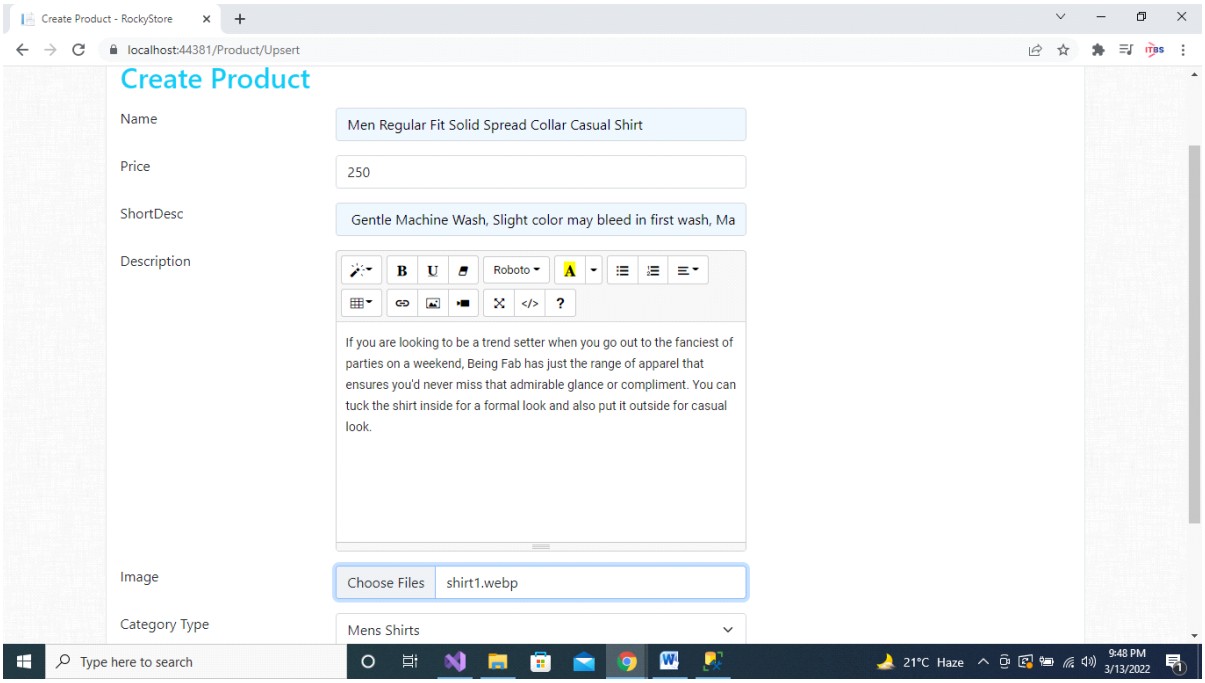

fig 8 (Creating product)

List the Product

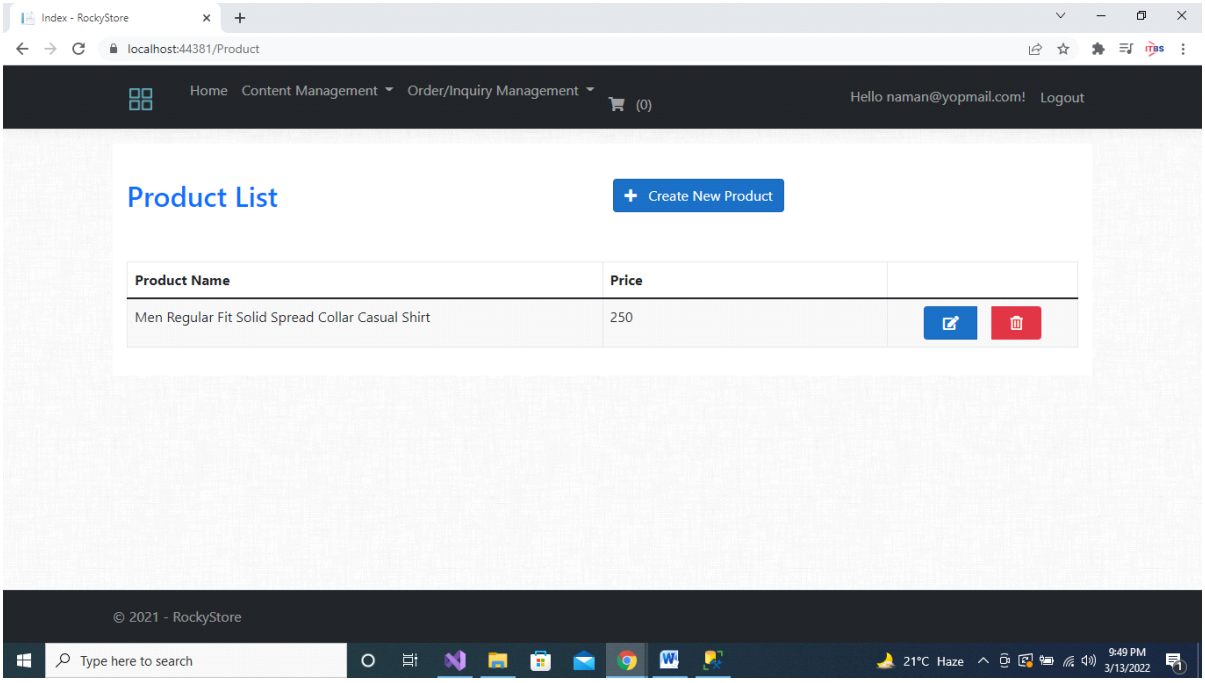

fig 9(Product list)

Edit Product

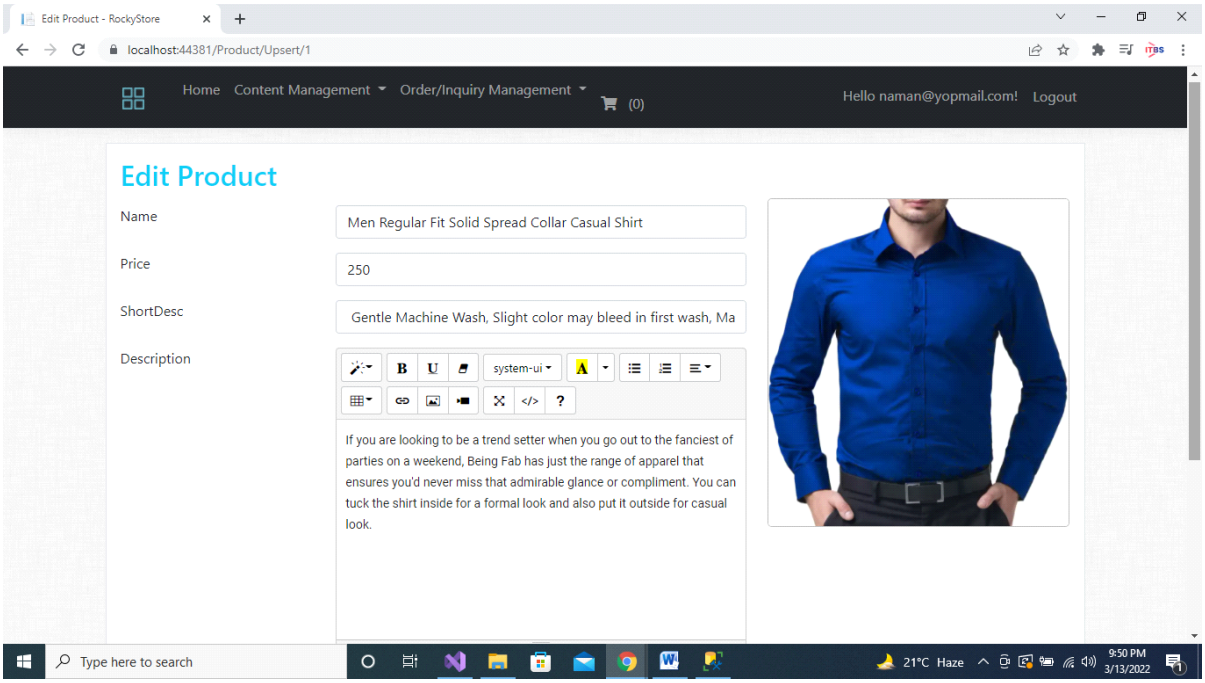

fig 10 (edit product)

Delete Product

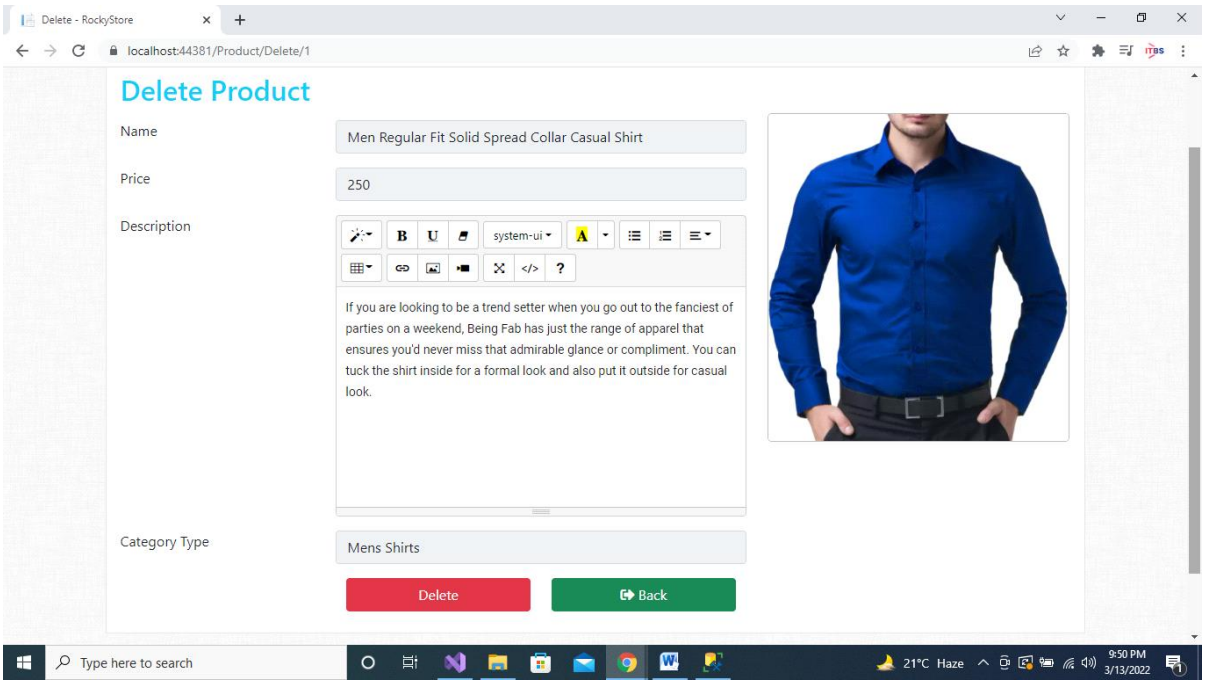

Fig 11 (Delete product)

Conclusions and Future Work

The 'Online Shopping Cart' web application is intended to provide a web-based application that facilitates product searching, browsing, and selection. The search engine offers a simple and convenient way to search

for products, allowing users to search for products interactively while the search engine refines the products accessible based on their input. The user can then view each product's detailed specifications. They can also read product reviews as well as create their own. The use of Ajax components would make the application more interactive and eliminate the need for unpleasant post backs. It would be simple to use because of the dropdown selection feature.

The user is given with an e-commerce web site that can be utilized to purchase products online in this project. We utilized ASP.NET as the technology to build this as a web application. ASP.NET Core has a number of advantages, including improved performance, scalability, security, and simplicity. A programming language such as C#, VB.NET, J#, or others is required to create any online application utilizing ASP.NET Core. The language used to create this application was C#.

We used Microsoft's Internet Information Services (IIS) as the Web Server to connect the client browser to the ASP.NET Core engine. ADO.NET is used by ASP.NET Core to connect with databases because it offers in-memory caching, which avoids the need to visit the database server frequently, and it is simple to deploy and maintain. Because SQL Server is one of the most popular open source databases and provides rapid data access, easy installation, and simplicity, it was chosen as the back-end database.

User-friendly shopping cart application logic must accompany a decent shopping cart design. Viewing the contents of the customer's cart and being able to remove or add goods to the cart should be simple. The Shopping Cart application detailed in this project includes several elements aimed at making the consumer feel more at ease. This project will help you understand how to make an interactive web page and the technology that go into making it. The project's architecture, which contains a Data Model and a Process Model, shows how the database is constructed with various tables, as well as how data is accessed and processed from the tables. The process of creating the project has taught me how to use ASP.NET to create a website, how to connect to a database to access data, and how to modify data and web pages to provide the user with the Shopping Cart application.

In terms of future developments, you can accomplish the following:

- The web site administrator can be given more capabilities, such as viewing a specific customer's profile, reordering books, and so on.
- Allowing several shopping carts is possible.
- Furthermore, the system may be used in various other types of auditing operations, such as network auditing or similar process/workflow based applications.
- Furthermore, it is just the beginning; the system may be used in various other types of auditing operations, such as network auditing or similar process/workflow based applications.
- The present system might be enhanced to allow users to create accounts and store items to their wish lists.
- Users could sign up for price alerts, which would notify them when the price of a product falls below a certain threshold.
- At the moment, the system is limited to the shopping cart process. It can be enhanced to provide a simple check-out process.
- Multiple shipping and billing addresses can be saved by users. They can utilize the drag and drop feature to select shipping and payment details during checkout.