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Technology- Enhanced Online Shopping Management System Using ASP.NET

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Abstract:

The fundamental purpose of the E-commerce Platform is to increase interactivity and user-friendliness. The goal is to simplify the searching, viewing, and choosing products process. It includes a highly advanced search mechanism that allows users to detect products that reaches the users requirements. The search function streamlines the product search process by providing users with an interactive tool to search the products, with the engine refining results based on user input. Users can access detailed specifications for each product, read reviews, and even post their own feedback. The E-commerce Platform essentially gives top priority to user convenience and engagement. Its state-of-the-art search feature enables users to explore products, making it are not difficult for users to discover items personalized to their preferences.

Keywords: Online shopping, Searching, Viewing, Selection.

I. INTRODUCTION

The E-shopping is a platform for product selling and purchasing. This system is easy to use and it gives an excellent experience to a user.

The goal of this application is:

• To develop a web based application for E-Shopping which helps to select products, view description of product, purchasing of a product.

• It contains a search engine by this method a customer can easily search product which decreases the searching time.

• Users can add product to a cart from cart itself they can purchase a product and the customer

can also remove the product from cart if they don't want to purchase it.

• Uses can also compare price from other E-Commerce platform and the customers can also select their nearby shops to purchase a product.

II. PROBLEM STATEMENT

The ongoing status of e-commerce platforms poses issues with customer satisfaction, an ineffective search engine, restricted interactivity, and complicated navigation. To combat these challenges, our suggested online shopping web application concentrates on a holistic solution. We intend to transform the digital shopping experience by introducing an advanced search tool that refines outcomes based on user input, simplifying product exploration. Engaging elements, like product evaluations, encourage user participation and community reliance. Providing thorough product details enables users to make educated choices. The user interface is crafted for easy manoeuvrings, ensuring a smooth and pleasant shopping journey. Our initiative aims to establish a new benchmark in online retail by prioritizing user-friendliness, interactive involvement, and efficient product exploration.

III.TECHNOLOGIES USED

C#: C# (said "C sharp") stands out as an amazing and contemporary programming language crafted by way of Microsoft, forming an imperative part of the expansive Internet framework. Farmed for its versatility, C# finds large use in growing a multitude of packages, starting from console and computer software programs to net applications.

Emphasizing robust support for item-oriented programming, C# encourages code modularity and reusability. Boasting functions like LINQ for streamlined information querying and asynchronous programming to enhance responsiveness, C# empowers developers to craft green and scalable answers. With cross-platform compatibility, a characteristic-rich popular library, and seamless integration with the Visual Studio IDE, C# is a desired choice. Non-stop updates ensure its relevance in the ever-evolving technological landscape.

ASP.NET: ASP.NET, or lively Server Pages. The Internet represents an extensively adopted internet software framework meticulously evolved with the aid of Microsoft. Running on the broader Internet platform, ASP.NET is course-built to develop dynamic and interactive web pages and programs

MySQL: MySQL, an open-supply relational database control system (RDBMS) backed with the aid of Oracle, makes use of established question language (square). Well-matched with numerous structures, inclusive of Linux, UNIX, and Windows, MySQL reveals particular affiliation with net applications and Windows publishing.

IV. EXISTING SYSTEM

The current system is limited to product selection, product viewing, product purchasing, and user satisfaction reviews. A product search option is included to reduce the amount of time a user spends searching.

The slight problems in this project are mentioned below:

Delivery delay: The delivery delay happens due to the product being not imported from the nearby location of a user.

Price comparison: The customers don't know which platform was providing the best discount to purchase a product.

No user choice to choose shop: The users don't have any feature to choose the shop, so the users do not know from which shop it was imported.

V. PROPOSED SYSTEM

In our Technology-Enhanced online shopping management system project we came with the new features as user can select the product, view the product, buying a product and the customer can add the product into cart and the customer can also add the product into wish list.

The major feature of our project is that the customer can purchase the product from their

favourite shops that are near their location and the product is delivered to the customer within less time.

The customer can also compare the product price from other platforms we provided a feature to comparison.

VI. MODULES USED

In our project Technology Enhanced online shopping management system we used 3 modules those are mentioned below:

Admin module:

In the admin module the admin will maintain complete project and the admin need to perform the add product, remove product, update product, need to maintain user data regularly and in our project we are using vendor module so the admin also maintained the vendor's data and the admin is responsible for everything.

Vendor's module:

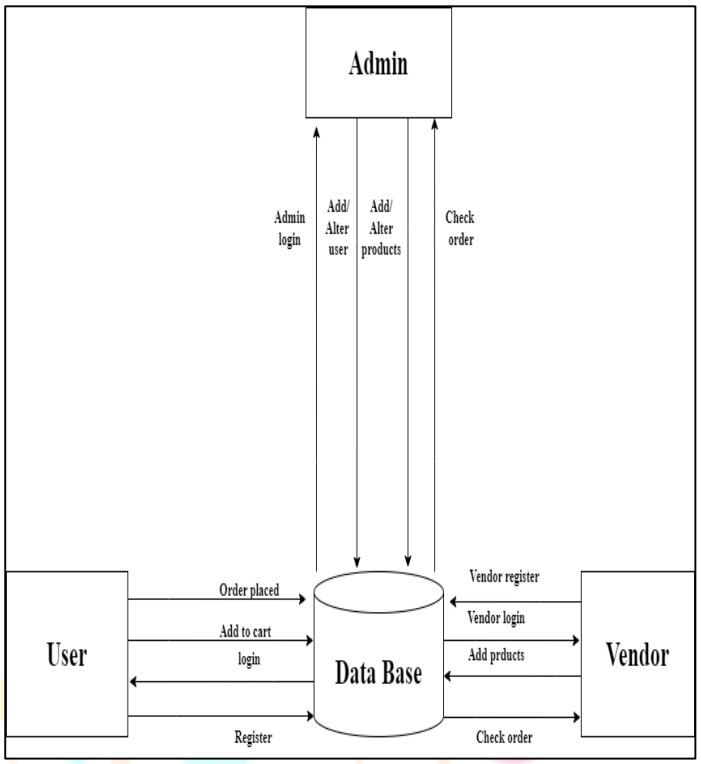
The vendor needs to create his account by consulting the admin and later the admin will give access to vendors then onward the customers can view the vendors shop in online shopping platform and the customers can select the product from the vendors shop.

User's module:

The user needs to create the account to purchase a product from the E-Commerce platform. To create account the users need to provide their contact details while registering to this platform. Later the users can purchase product from the E-Commerce platforms.

VII. SYSTEM ARCHITECTURE

The device depicted within the image simplifies the complexities of on-line retail by offering an established and streamlined method for each users and administrators. Right here's the way it simplifies the process:



Authentication: The gadget ensures that handiest authorized users can access and carry out actions in the platform. This simplifies safety and user control.

Database: The database helps to store all the data of admin, vendor and user. It helps to retrieve the data.

Consumer Interface:

Select products:

Customers can effortlessly browse and pick out merchandise they are interested by.

Add to Cart:

The user can add product to cart. The user can directly purchase a product from cart itself.

Purchase product:

The shopping method is streamlined into a single action for the consumer.

Admin Interface:

Update Products: The admin will update the products as per their requirement.

Delete Products: Admin can delete the product from the platform as per the requirement.

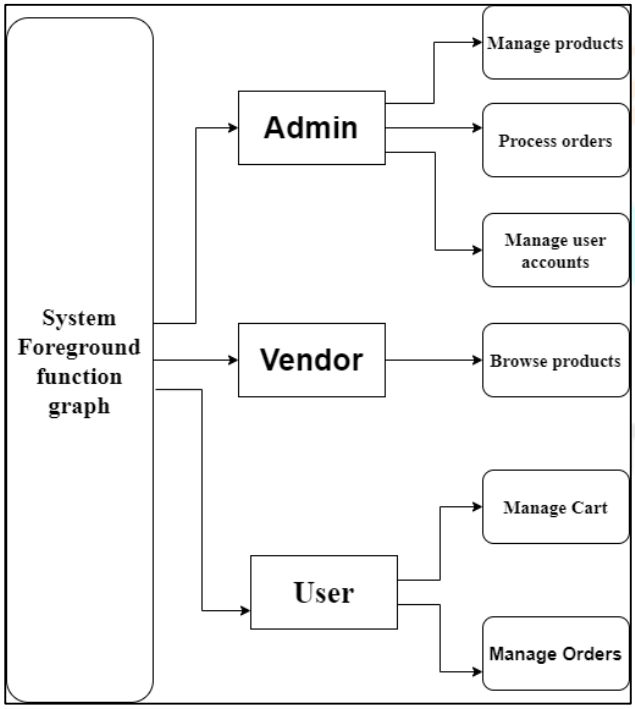
Update user's data: Admins can manage user's data and the admin can update every transaction which is performed by a user's.

View Orders: The administrator can view all the orders which are selected by customers.

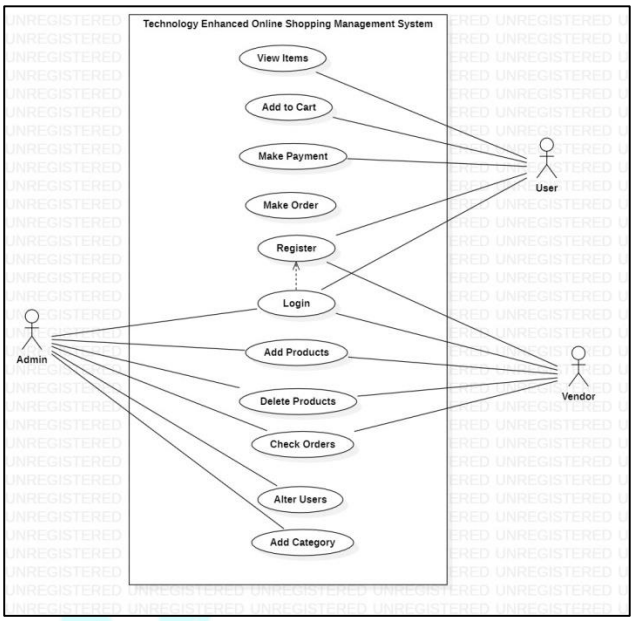
Invoice generation: The machine can automatically generate bills for purchases, which simplifies the checkout system for users and the accounting procedure for the commercial enterprise.

Usual, the machine is designed to make the net retail enjoy more efficient and consumer-pleasant for each customers and administrators by means of automating and organizing key duties and records flows.

System Foreground Function Graph:



USE CASE DIGRAM:



VIII. SCOPE OF WORK

In this system we are developed a project with 3 modules.
1. Admin
2. Vendor
3. User

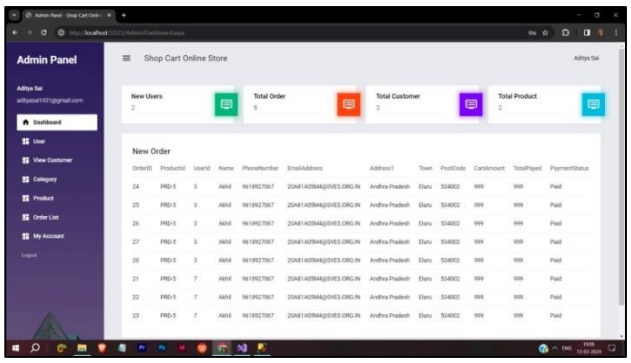
Admin: The admin will login by using credentials and the admin can update the product, manage user's data, view orders, invoice generation and maintains vendors data.

Vendor: The vendor will login by using credentials and the vendor will manage the products.

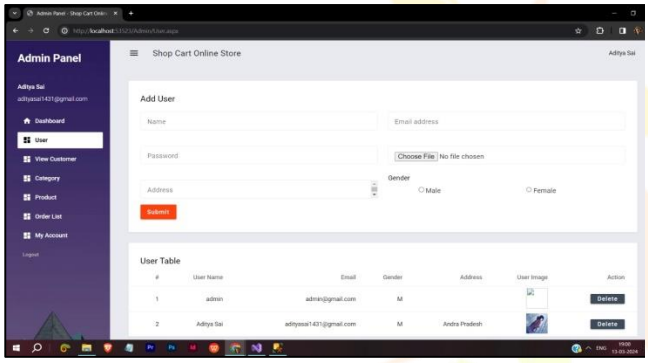
User: The user will login by using their credentials; if the users don't have an account then the user will register by using their name, mail id, phone number and their address.
After login the user can select, view, and purchase a product. In our project, users can select their products from nearby shops and compare their prices with other platforms.

IX. RESULT

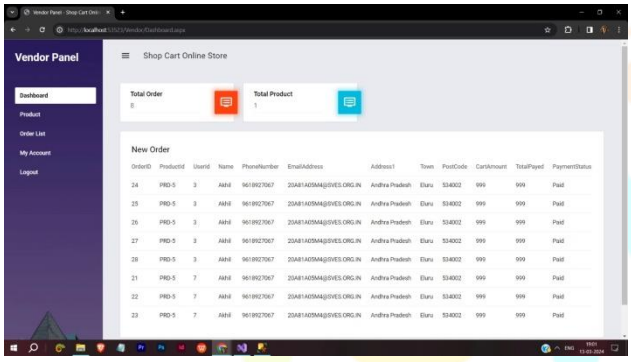
Admin homepage:



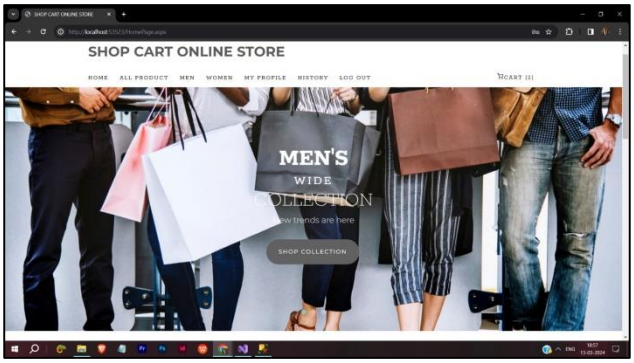
Admin maintaining user's data:



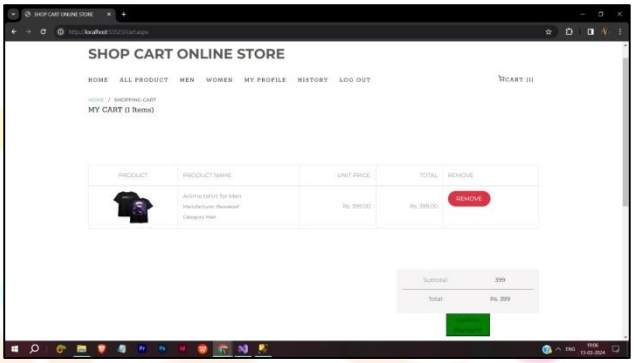
Vendor homepage:



User homepage:



Cart page:



X. CONCLUSION

This project entitled **Technology-Enhanced Online Shopping Management System** was completed successfully.

We are developed this project with much care and free of errors. The purpose of this web application is to sell the products through online and the customers can purchase the products from their nearby shops. The customer can also compare the price with other E-shopping platforms.

By developing this project we gained a lot of valuable knowledge and this project give us more satisfaction.

A chance exists to develop our project in a great and extend with amazing features.

XI. REFERENCES

1. Shibin Chittil, Nidheesh Chittil, and Rishikese developed a web application

for online shopping systems at Cochin University of Science and Technology in March 2014.

2. Fan Wei and Quian Zahang developed a web application for online shopping systems based on the B/S model at Shiyou University in China in 2018.

3. Chitanyareddy Mittapelli developed a web application for online shopping at Osmania University in 2005.

4. Dr. R. Angamuthu, PG & Research development of commerce, study on online shopping in India, March-2020.

5. Akash Alwani, Suryakanti Yadav, and Tushar Pradhan, 'A study of consumer behavior towards online shopping in Vadora city', Parul University, May 5th, 2021.

6. Mohhammad Enamul Hoque, 'A study on online shopping services in Bangladesh', University of Boras, 2013.

7. A study was carried out by Upasana Kanchan, Naveen Kumar, and Abhishek Guptha in 2015 to examine the online purchasing behavior of customers in India.

8. Sarita devi, Parul saini, Interplay of influencing factors and risks and benfits, Delhi university, 2013.

9. C.k. sunitha, M. Edwin Gnanadhas, Holly cross college, online shopping.

10. Ratheesh k nair, Rajini mathur,Lavanya, Nagendra Yadav, Dipa benerje,sindu akhilesh, Service quality and customer satisfication towards online shopping, 2023.