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Web Based Smart Shopping

(Suggestion Based on Selection of Products)

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Abstract

This project is aimed at developing a Web Based Smart Shopping (Suggestion Based on Selection of Products). The purpose of this topic is to create a new shopping process concept for the Suggestion on Selection of Products. This is an Intranet based application that can be accessed everyone for the shopping. With the aim to simplify the whole shopping process for customers by using a computerized smart shopping. The concept that was developed is called (Smart shopping) and it comprises main server and at least one computerized smart shopping (tablet computer). The Smart Shopping System will require two components: a website that the user can access to create a customized environment, including new shopping lists, and a self-checkout component that will scan all items in the shopping cart and prevent the shopper from waiting in lines at the checkout. Customers will be able to perform many tasks included in the main functionality of touch screen tablets. For instance search for products. Self-scanning prices. Daily deals, the result will be shown on the display. Smart shopping system was developed from the perspective of customer whose needs were not fully fulfilled once he takes part of the shopping system process.

Index Terms: Customer, Product, Selection, Shopping.

1. INTRODUCTION

According to present scenario, now a day's shopping at big malls is becoming a daily activity in metro cities. The huge rush at malls on holidays and weekend. Considering all problems, we have implement a system that can be use smart shopping. Smart Shopping Application is totally an independent application which is not related to any other system and not a component of a larger system. This application has only one type of user, and thus there is no functionality differences between users. That's why, the application only has one type of user interface. The interface of the application has a starting menu, which consists of a list of predefined products that the supermarket provides. The interface allows the user to choose from the products. After the choice, the interface changes into a suggestion of related products. s. This smart shopping system not just provides the smarter way of shopping but also reduces the time for waiting in queue for checking out their purchased items and also reduces the man power in stores. The smart shopping cart is designed in such a way it is very user friendly and attracts the shopper¹.

Online shopping system is a virtual store on Internet where customer can browse the product and select the product of interest. The selected product may be collected in shopping cart. At checkout time the items in the shopping care will be presented as an order. At that time shipping information and payment method have to select to the customer. Finally by confirming the order have to complete the shopping and the product will deliver to customer via courier, post office or by direct agent of company.

In this paper, we are implementing a system "Web Based Smart Shopping (Suggestion Based on Selection of Products)" being developed to assist a person in everyday shopping in items of reduce time spent while purchasing. The main objective of purposed system is to provide a technology oriented, low cost, easily scalable and rugged for assisting shopping in person.

2. SOFTWARE REQUIREMENT

Hardware Requirements:

- RAM: 1 GB or above
- Hard disk: 4 GB or above
- Processor: 2.4GHZ or above

Software Requirements:

- Platform: Windows
- Front End: HTML, PHP, JAVASCRIPT and BOOTSTRAP
- Back End: MySQL

3. SCOPE:

- The current system can be extended to allow the users to create accounts and save products in to wish list.
- The users could subscribe for price alerts which would enable them to receive messages when price for products fall below a particular level.
- The current system is confined only to the shopping cart process. It can be extended to have a easy to use check out process.
- Users can have multiple shipping and billing information saved. During checkout they can use the drag and drop feature to select shipping and billing information².

4. PURPOSE:

The central concept of the application is to allow the customer to shop virtually using the Internet and allow customers to buy the items and articles of their desire from the store. The information pertaining to the products are stores on an RDBMS at the server side (store). The Server process the customers and the items are shipped to the address submitted by them. The application was designed into two modules first is for the customers who wish to buy the articles. Second is for the storekeepers who maintains and updates the information pertaining to the articles and those of the customers. The end user of this product is a departmental store where the application is hosted on the web and the administrator maintains the database. The application which is deployed at the customer database, the details of the items are brought forward from the database for the customer view based on the selection through the menu and the database of all the products are updated at the end of each transaction. Data entry into the application can be done through various screens designed for various levels of users. Once the authorized personnel feed the relevant data into the system, several reports could be generated as per the security³.

5. SYSTEM DEFINITION:

5.1 Use Case Diagram:

A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. The use case is made up of a set of possible sequences of interactions between systems and users in a particular environment and related to a particular goal. It consists of a group of elements (for example, classes and interfaces) that can be used together in a way that will have an effect larger than the sum of the separate elements combined.

The use case should contain all system activities that have significance to the users. A use case can be thought of as a collection of possible scenarios related to a particular goal, indeed, the use case and goal are sometimes considered to be synonymous. In this use case diagram of Online Shopping admin can add, delete, edit and view Category, Manufacturer and Product as well as admin can manage all of them. Also Admin can manage order those are requested by the customer, and can change the status³.

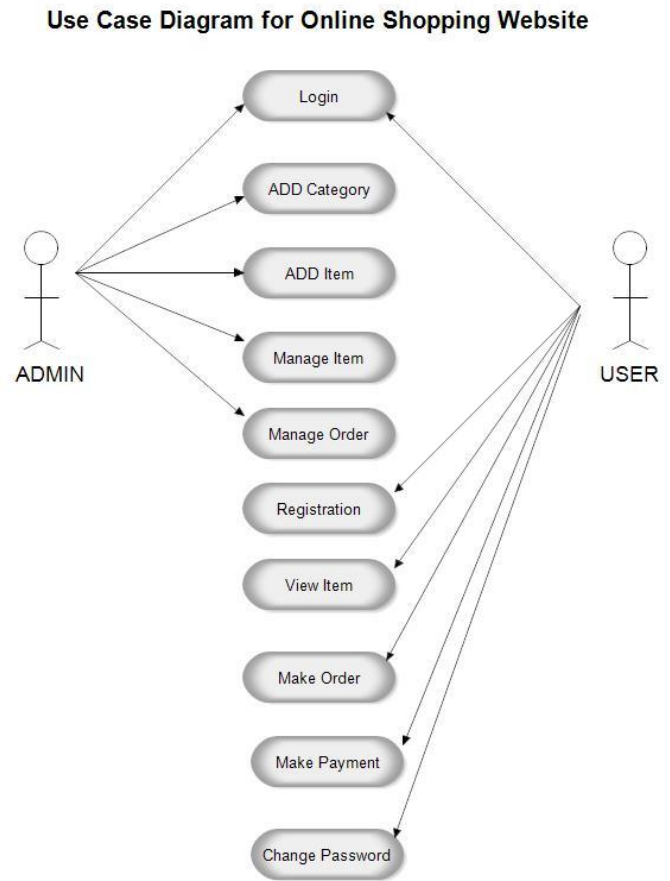


Fig 1: Use Case Diagram:

5.2 Activity Diagram

Issue

Activity charts are graphical representation of work process of stepwise exercises and it demonstrate the general stream of control. It represents the flow of activities from one activity to another. It shows how the application work⁴.

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cycle. We learned how to test different features of a project. This project has given us great satisfaction in having designed an application which can be implemented to any nearby shops or branded shops selling various kinds of products by simple modifications.

Activity Diagram for Admin Side

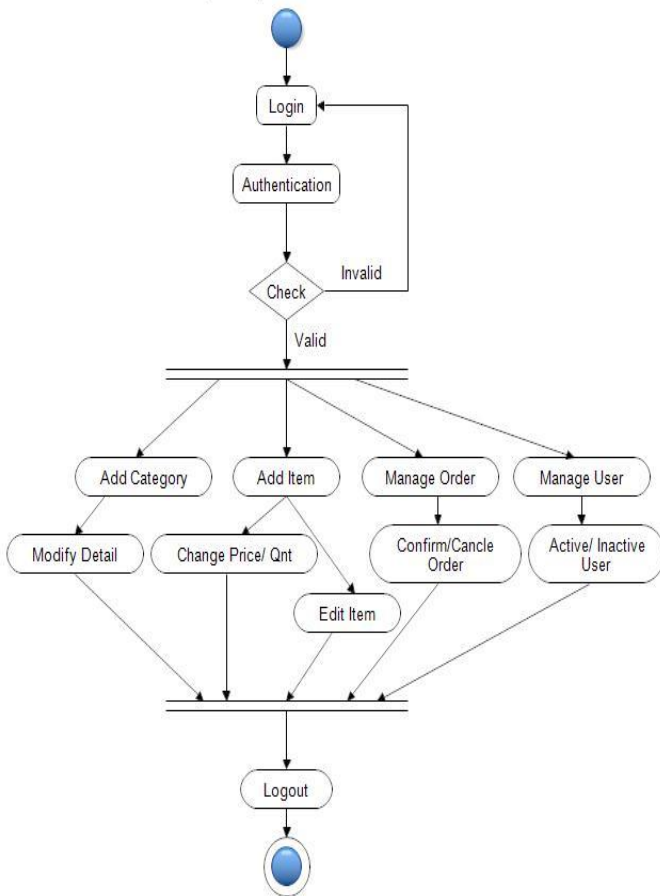


Fig 2. : Activity Diagram

6. CONCLUSION

The paper entitled Web Based Smart Shopping (Suggestion Based on Selection of Products) was completed successfully. The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to develop a web application for purchasing items from a shop. This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using HTML, JS, PHP & CSS usage of responsive templates, and management of database using MySQL. The entire system is secured. Also the project helped us understanding about the development phases of a project and software development life

FUTURE SCOPE:-

This system can be implemented to any shop in the locality or to multinational branded shops having retail outlet chains. The system recommends a facility to accept the orders 24*7 and a home delivery system which can make customers happy. If shops are providing an online portal where their customers can enjoy easy shopping from anywhere, the shops won't be losing any more customers to the trending online shops such as flipcart or ebay. Since the application is available in the Smartphone it is easily accessible and always available.

ACKNOWLEDGEMENT

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