



International Journal of Advanced Research in Computer and Communication Engineering Vol. 2. Issue 10. October 2013

An Online Purchase Portal for Books and Seeds in Regional Language (Punjabi)

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Abstract: Online shopping has become fast growing trend in current world. The primary goal of an e-commerce site is to sell goods and services online. Be it the clothing, households, transport or any useful item, everything is easily available online and on cheaper prices as well. But the most important sector in which the online facility has not been provided so far is the field of agriculture. Farmers in Punjab still have to travel from their distant places to buy the required seeds and agriculture related books from Punjab Agriculture University. To facilitate the farmers, implementation of online purchase portal for farmers has come into picture. Here, farmers can buy whatever variety seeds they want in whatever quantity and the main thing is that they can buy all this in their regional language, Punjabi. Facility for both English and Punjabi is the main feature of this online implementation. This system will use the names and price of books and seeds as input. Also, we will provide information regarding those books and seeds. The purchase portal has been developed using ASP.Net (3.5) technology with C# being the language for the implementation. At the back end, all the data will be stored and managed using Microsoft SQL SERVER.

Keywords: Purchase Portal, ASP.Net (3.5), Microsoft SQL SERVER.

I. Introduction

organization to introduce its goods and services, advertise its profitability [7]. new items, sell easily and quickly, and receive money Electronic commerce has become one of the essential not only a free delivery, but also online purchasing discount

With the increase of internet application by non-professional by using an e-shopping system. Due to these changes, eusers in India, many retailing companies tend to sell their retailing companies are trying to find loyal customers to goods or services online instead of the traditional ways. An ensure their survival. Customers' loyalty is considered online selling system can make opportunity for the important because of its positive effect on long-term

online. Also, the company reaches customers in remote characteristics in the Internet era. According to UCLA places and this can extend the area of its business. Besides, Center for Communication Policy (2001), online shopping customers increasingly prefer to purchase many items has become the third most popular Internet activity, online. This has many benefits for them versus the immediately following e-mail using/instant messaging and traditional purchasing ways. For instance, instead of web browsing. It is even more popular than seeking out travelling a long distance to buy something, they may enjoy entertainment information and news, two commonly thought of activities when considering what Internet users do when online. Of Internet users, 48.9 percent made online

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ISSN (Print) : 2319-5940 ISSN (Online): 2278-1021



International Journal of Advanced Research in Computer and Communication Engineering Vol. 2, Issue 10, October 2013

indicating that they make 1-10 purchases per year. When order links for specific products. segmented into very versus less experienced Internet users, · Obvious shopping links or buttons. the very experienced users average 20 online purchases per · Minimal and effective security notifications or messages. year, as compared to four annual purchases for new users [1]. Online shopping behavior (also called online buying Another important factor in the design of an e-commerce site services associated with the felt need. They then evaluate there would be no feedback". alternatives and choose the one that best fits their criteria for The relationships among e-service quality, e-customer purchases on the Internet [4].

survey also indicates that faith in the security of ecommerce satisfaction and perceived value directly affect e-loyalty [9]. is increasing. As more people gain confidence in current encryption technologies, more and more users can be expected to frequently purchase items online [10].

A good e-commerce site should present the following factors to the customers for

better usability [10]:

- · Knowing when an item was saved or not saved in the shopping cart.
- · Returning to different parts of the site after adding an item to the shopping cart.
- · Easy scanning and selecting items in a list.
- · Effective categorical organization of products.

- purchases in 2001, with three-quarters of purchasers · Simple navigation from home page to information and

 - · Consistent layout of product information.

behavior and Internet shopping/buying behavior) refers to is feedback [2]. The interactive cycle between a user and a the process of purchasing products or services via the web site is not complete until the web site responds to a Internet. The process consists of five steps similar to those command entered by the user. According to Norman [5], associated with traditional shopping behavior [3]. In the "feedback--sending back to the user information about what typical online shopping process, when potential consumers action has actually been done, what result has been recognize a need for some merchandise or service, they go to accomplished--is a well known concept in the science of the Internet and search for need-related information. control and information theory. Imagine trying to talk to However, rather than searching actively, at times potential someone when you cannot even hear your own voice, or consumers are attracted by information about products or trying to draw a picture with a pencil that leaves no mark:

meeting the felt need. Finally, a transaction is conducted and satisfaction, perceived value and loyalty has been examined post-sales services provided. Online shopping attitude refers empirically. Data were collected from online customers and to consumers' psychological state in terms of making structural equation modeling was applied to test the relationships. The results revealed that e-service quality Although the issue of security remains the primary reason positively influences customer satisfaction, perceived value why more people do not purchase items online, the GVA and e-loyalty. Also, findings showed both e-customer

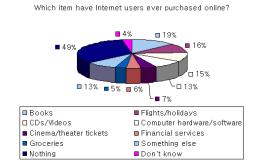
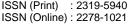


Fig 1: Graph of Internet Users Purchasing online

II. IMPLEMENTATION

An online store is a virtual store on the Internet where customers can browse the catalog and select products of





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interest. The selected items may be collected in a shopping credit card number [8].

Natural Language Processing holds great promise for books or seeds. making computer interfaces that are easier to use for people, language of computer commands [6].

ASP.NET is a programming framework built on the common language runtime that can be used on a server to build powerful Web applications. ASP.NET has many advantages - both for programmers and for the end users because it is compatible with

the .NET Framework. This compatibility allows the users to use the following features

through ASP.NET [5]:

- a) Powerful database-driven functionality
- b) Faster web applications
- c) Memory leak and crash protection

III. METHODS AND METHODOLOGY

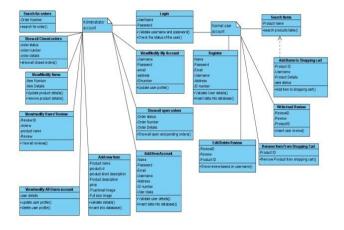


Fig 2: Block Diagram of the System

From the user's point of view, when the user will cart. At checkout time, the items in the shopping cart will be open the purchase portal, he will find the option to operate presented as an order. At that time, more information will be the site whether in English or Punjabi version. He will select needed to complete the transaction. Usually, the customer the language according to his priority. Then the user will will be asked to fill or select a billing address, a shipping login by giving his login details. Then he will select the address, a shipping option, and payment information such as category as well as the type (vegetable seeds, fruit seeds etc.) from which he wants to purchase an item i.e whether

After the selection of the item, he will add the item since people will (hopefully) be able to talk to the computer to the shopping cart and he can review the order as well as in their own language, rather than learn a specialized edit any purchase, he will be asked to provide the payment details according to the type he selects.

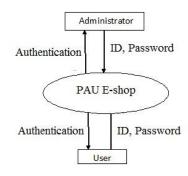


Fig 3: Context Diagram

The above figure shows us that how the username id and password is checked by the administrator.

At the user level, the data will flow as follows:

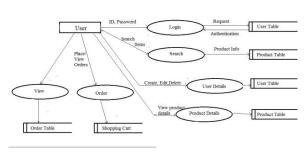


Fig 4: DFD for User

At the administrator level:

ISSN (Print) : 2319-5940 ISSN (Online) : 2278-1021



International Journal of Advanced Research in Computer and Communication Engineering Vol. 2, Issue 10, October 2013

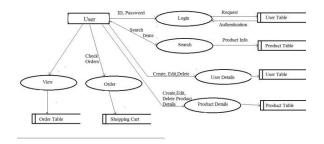


Fig 5: DFD for administrator

IV. RESULTS AND DISCUSSION

As per a survey, most consumers of online stores are impulsive and usually make a decision to stay on a site within the first few seconds. "Website design is like a shop interior. If the shop looks poor or like hundreds of other shops the customer is most likely to skip to the other site" [4]. Hence the purchase portal designed mentioned above can be used to provide the user with easy navigation and retrieval of data. The user is provided with an e-commerce web site that can be used to buy books and seeds online. To implement this as a web application ASP.NET has been used as the technology. To build any web application using ASP.NET a programming language such as C#, VB.NET, J# and so on is needed. C# was the language used to build this application.



Fig 6: User can select from the category-books/seeds and if seeds, then which variety of seeds.

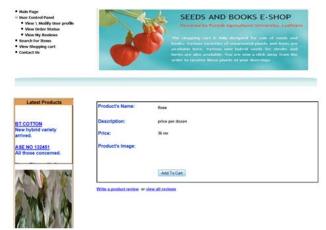


Fig 7: Item's description and price are given. User can select the item and add to the cart.



Fig 8: User can view the shopping cart from the 'View Shopping Cart' option on the left hand side of the site.



Fig 9: User also has the privilege of viewing or modifying the user profile.

ISSN (Print) : 2319-5940 ISSN (Online) : 2278-1021



International Journal of Advanced Research in Computer and Communication Engineering Vol. 2, Issue 10, October 2013

V. CONCLUSION

The "Online Purchase Portal for Books and Seeds in Regional Language (Punjabi)" is an online web application that has been developed for the convenience of farmers. The application can be used by the farmers to purchase books and seeds in their regional language. The rapid development of internet technology has changed the sale and purchase scenario. It is easy to access the application online. Farmers have been facilitated as they are able to purchase books and seeds in Punjabi. The use of internet technology has greatly enhanced the benefits of such applications. However, the development of online purchase portal poses new challenges and emphasis on more researches to be carried out.

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BIOGRAPHIES



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