

## ONLINE EXCHANGE WEBSITE FOR INTERNAL POSTING

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### ABSTRACT

This document presents the website for buying and selling of used goods. Xento On-Line Exchange is an online classified site which act as a platform for connecting buyers and sellers by posting an ad for free on this website.

**KEYWORDS:** Online shopping portal, product buying and selling, C2C (customer to customer), internal posting.

### INTRODUCTION

There has been a rapid expansion of E-commerce since 1998 due to the growth in availability and falling costs of technology. E tailing is a concept which rising in market but there is a new market segment have been raised which deal in used product selling. Xento Online Exchange is a website which start its operation in the organization itself as website is for internal posting only. It operates as a medium for the buyers and sellers of the second hand products.

One of the greatest problems in the resale of second-hand products is the issue of trust—buyers aren't comfortable buying second-hand products (whether used or otherwise) from strangers on the internet. This project aims to use an online platform to introduce potential buyers to sellers from a same organization only, where buyers can view the sellers' products and can contact them offline. Online Exchange is being launched because a need for a destination where the local community could come together and help each other is seen. Community members within a company can come here to find product, sell their old car, music system, mobile phones, or what not and make new friends while doing all of the above. Online Exchange fulfils the requirements of an individual related to the specified category. A person can search for products without the involvement of a dealer and save the extra money which he/she would have paid as commission. Moreover, the person do all this in a single click of the mouse button i.e., searching / traversing posting advertisements etc. can be done while sitting at home. Online Exchange is a web application that enables people to list products and services for sale. Here are some major highlights features of classified website:-

- Anyone can post an ad of a product/service for sale
- Posting an ad is absolutely free
- Trustworthy sellers

- Buyers can see product pictures and other details

Online Exchange provides the platform but does not directly participate in, nor is it involved in any Classifieds transactions. This system requires a user to register before sending a quote. Registration is done with the help of employee ID. The system has an administrator who keeps an eye on the overall functioning of the system.

## PROPOSED WORK

The main objective of this system is to provide convenience to the users to use a computerized system to make processes regarding second-hand products easier. There are various systems which provide online shopping of the products. But those systems do not provide platform for reselling the used goods. We are providing a platform where you can sell your second-hand product simply by posting an advertisement for free. This system is fully computerized. There are two types of users i.e. the admin and other users in which buyers and sellers both are involved.

- Module 1- Registration module

This module is use for authentication and authorization purpose. The registration module is responsible for allowing intended person to perform actions. According to existing employee ID account will be created and stored on database so that the purpose of internal posting could be achieved.

- Module 2- Product module

This module is common for all users. In this module list of different products will be visible with respect to category. Along with the product general information like product details and seller's information. Some basic filter features are also there to browse the products more efficiently.

- Module 3- Seller module

This module is dedicated to the sellers which are willing to sell their products. They have their own dashboard. The seller will post an ad about his product for free which will contain detailed information about his product including photographs and personal information about the seller so that interested viewer can contact him to buy that product. This uploaded products are approved by the admin and then they will be available for sell.

- Module 4- Post ad module

This module is available for the seller for posting an ad of a product. In this module one form is there in which category of the product, name of the product, description, date of purchase, price of the product and images will be stored.

- Module 5- Buyer module

This module is associated with the buyer. In this module viewer can see the details of the products and can show interest by clicking "interested" button so that seller will get the notification. Buyer can directly see the seller's details to contact them.

- Module 6- Admin

This module consist of various facilities like insert a category, remove a category, approve a request to post an ad, deny the request sent by the seller to post an ad, delete an ad. It can also manage its account.

## SYSTEM ARCHITECTURE

The system strictly follows the feature of internal posting due to which only organization related people will get access to use this system. Admin will collect the data of employees and store those into database this will avoid the external registration of the users.

Once you open a website, landing page will get displayed. In this landing page all the previously posted advertisements will be listed through which user can see the details of the product and the sellers. All the parent categories are also displayed there which will reduce the complexity of browsing. Sorting options such as popularity, price low to high, price high to low and latest posts are also available.

By clicking on your desired product ad detailed information about that product will get displayed. There you can find sellers information to communicate further. But before this you have to log in to the website through the log in window. If you are not a part of the organization then you will not be allowed to buy or sell a product.

If you wish to sell your product then also you have to login first through the same login window. After logging in you have to fill a form for posting an ad which is about the product details. But only filling a form is not enough for publishing your product's ad, admin has to accept your request for posting an ad. Resultant in which number of sensitive content or unwanted products will get reduced. Seller can track his ad by various tags like pending ads, live ads, denied ads. Pending ads tag is for the advertisements which are about to approved. Live ads tag is for keeping track on viewers of the ad and interested people. Denied ads tag will tell which ads are get rejected by the admin and why. Seller can mark his ad as "sold" after selling the product so that other viewer can know the status of the product.

Admin keeps the eye on working of the website and controls the mal-actions if performed. Admin can reject the ad but he has to give valid reason for that. Admin can also act as buyer or seller if he wants.

After finding a desired product buyer can communicate the seller offline and will buy that product offline only. This will improve the bond between colleagues as users are strictly from the same organization.

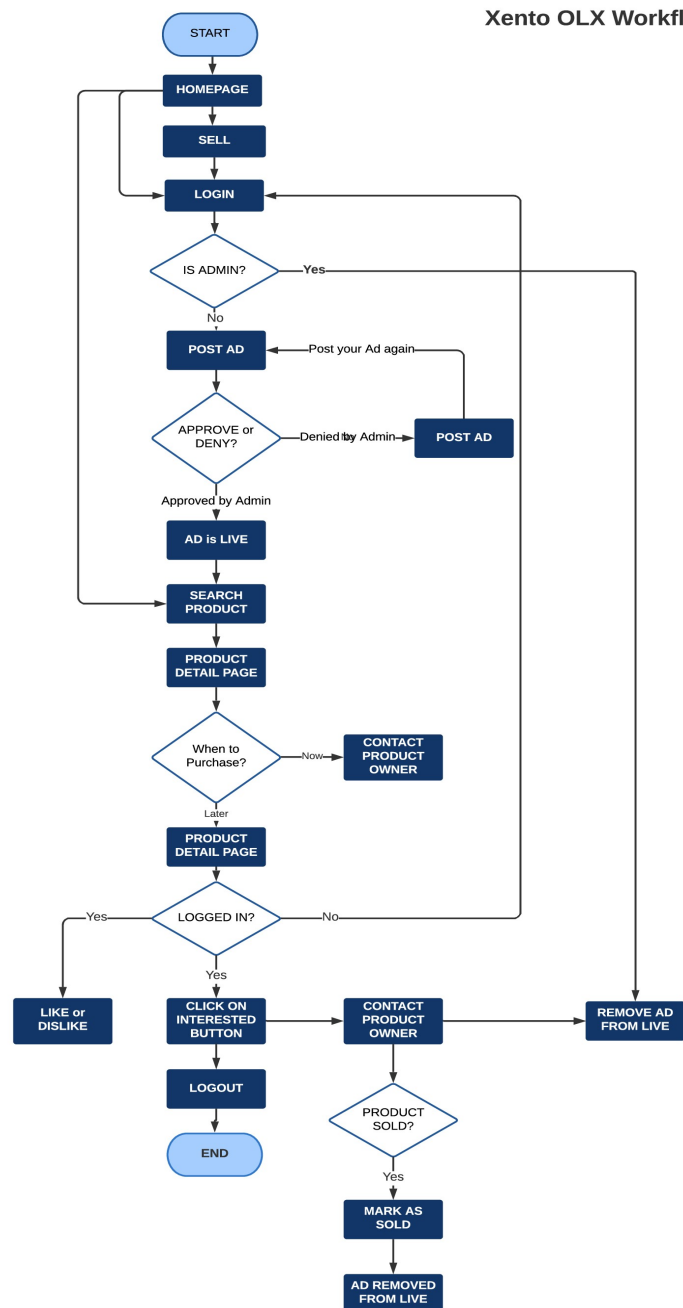


Fig.: System Flow

## MATHEMATICAL MODEL

System Description:

- Input: Login Details, Product Details, Seller Details
- Output: Seller will get profit by selling his old stuff and Buyer will get the product as per his requirement or need.
- Functions: postAd(), viewAd(), logIn(), interested(), accept(), deny(), deletePost().

Mathematical formulation:  $S = (I, F, O)$

where,

Input =  $(I_1, I_2, I_3, \dots, I_n)$

Function =  $(F_1, F_2, F_3, \dots, F_n)$

Output =  $(O_1, O_2, O_3, \dots, O_n)$

- Success Conditions: Product received by the buyer successfully, Seller get the payment successfully.
- Failure Conditions: Product ad didn't get any view and buyer, Product ad denied by the admin.

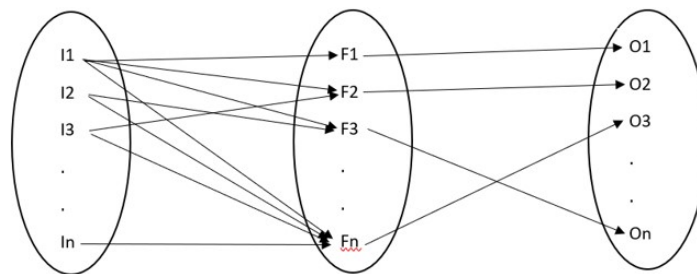


Fig.: Venn diagram

## RESULT AND DISCUSSION

The result of this website would be buyer get the product as per his requirements from the trustworthy seller. This platform provides a customer to customer deals in which customers or users are get restricted by the main feature of this website which is internal posting.

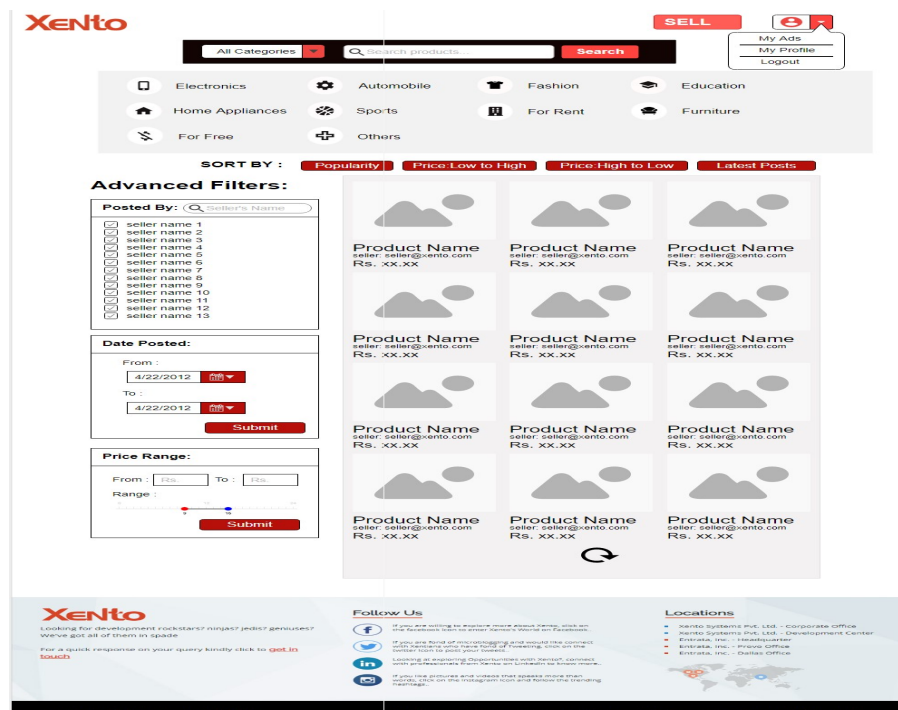


Fig.1.1: Homepage

As a result this site we have snapshots of different modules of this website. The landing page or homepage (Fig.1.1) will be displayed once website is open. On this page product will be listed as per categories with their details. Because of categorical segregation UI becomes easier to handle. For further processing user has to log in to the website through the log-in window (Fig.1.2). This will allow only intended person to access the site.

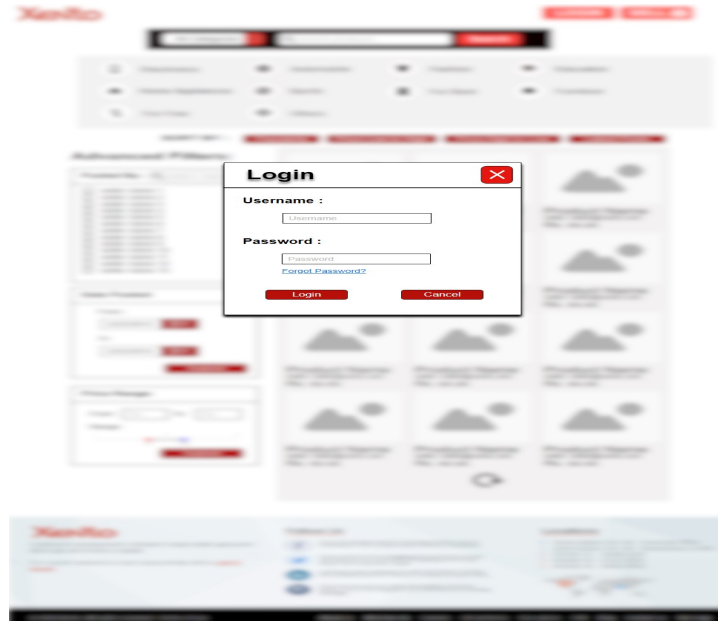


Fig.1.2: Log-in page

For posting an ad of a product seller has to fill a form (Fig.1.3) which has product details and then after receiving acceptance from admin ad will be shown to the viewers this will minimize the number of unwanted or sensitive content from the website.

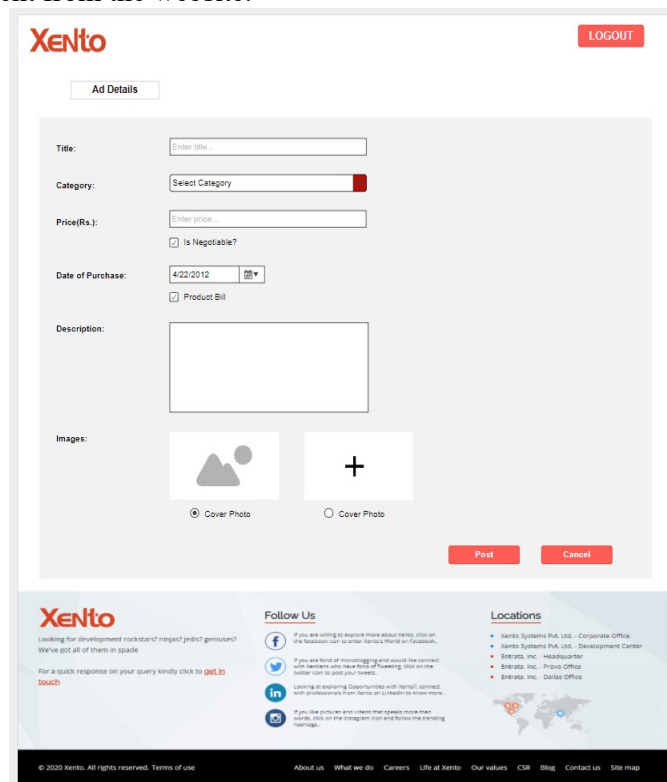


Fig.1.3: Post an ad

This is how resultant website will work and it will provide user friendly, easy to access GUI. As well as it will sure unauthorized person is not entering in the site.

## CONCLUSION

In a very short span of time, Online Exchange has revolutionized the online classified market. They came up with a new concept of buying and selling good online with no interference involved. It provides a user friendly platform for a simple and proper interaction for buyers and sellers, with no middlemen or dealers involved. Thus, Online Exchange has set a model for other online classifieds. There are items for almost any interest that one could imagine, from music instruments to automobiles and hand tools. And the variety doesn't stop there. One may find proper category, in any configuration from very old and obsolete to the latest greatest machine available. What about car? One can find a perfect matched car with his requirements including the oldest version to the latest. The website is even more acceptable since it does not levy any registration or users charges and offers the website in multiple category as well. With their aggressive marketing strategies through television ads, social media and mobile application and innovative marketing strategies the company has become a market leader. Increase in growth market and exceeding the scope of the platform as well as improving bond between the colleagues and innovation are important challenges for the firm.

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