

E-COMMERCE WEBSITE FOR HANDMADE GOODS

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Abstract: The project deals with designing a website to sell handmade goods. This website assures distant customer timely delivery of the product. It makes use of modules such as payment gateways for secure transaction of money. This whole system will be designed using PHP which will allow dynamic creation of responsive website. There are two categories of products - consumable and decorative. In consumable category products are useful to do some work such as plates made out of leaves, Broom made from coconut leaves etc. There are decorative products such as Stone statues, dolls made out of coconut shells, decorative pieces made from seashells.

IndexTerms - Handmade goods, e-commerce, PHP

I. INTRODUCTION

E-commerce is currently one of the most important internet emerging aspect. With increase in demand for online purchasing, more and more businesses are moving towards e-store from brick and mortar stores [1]. E-commerce enables consumers to electronically exchange goods and services irrespective of time and distance. The best thing about e-commerce is buying options that are user friendly, convenient and quick with the ability to transfer funds online. Due to this convenience, consumers can save their lots of time as well as money by searching their products easily. The primary goal of this e-commerce website is to create employment for workers of an organization. The development of this e-commerce website is mainly for fund raising purpose. This website intends on creating and maintaining relationship with its users. The customer is able to view the categories, place order, track order, bulk enquiry etc. Payment gateway feature is added for secure financial transactions. It also provides mechanism for user to provide feedback of product.

II. EXISTING SYSTEM

With the adverse change in IT sector and appearance and development of online stores, the online shopping has changed completely as compared to what it was in the past [2]. Now in order to exist in this severe market competition it is important for the organizations to understand the factors that matter for consumers when they go for online shopping. Various systems exist for online dealing of goods and services. As for clothing and garment we have Myntra, Shein, for e-Gadgets we have Amazon, Flipkart etc. Similarly, various websites and applications exist for online selling of handmade goods which are also used for funding or donation purpose.

III. PROPOSED SYSTEM

The project deals with designing a website to sell handmade goods. This website assures distant customer timely delivery of the product. It makes use of modules such as payment gateways for secure transaction of money. This whole system will be designed using PHP which will allow dynamic creation of responsive website. There are two categories of products - consumable and decorative. In consumable category products are useful to do some work such as plates made out of leaves, Broom made from coconut leaves etc. There are decorative products such as Stone statues, dolls made out of coconut shells, decorative pieces made from seashells.

IV. SYSTEM ARCHITECTURE



fig IV: system architecture

This diagram shows the relationship between different components and the interaction between them.

Online Customer: Makes request to the web server and receives response from the server page. Searches for the desired product by typing the product name in the search box.

Shopping Cart: Add a product to the basket, continue shopping by adding more products to the cart. Users can save the products in cart and wait for some sale or coupon to save some money.

Online Payment: When customer decides to buy a product he/she places the order. If some discount or coupon code is available applies it and moves further to payment process. Many payment gateway options are available for online shopping the customer chooses one of them and completes the payment transaction.

Order Complete: Once the order is placed customer gets the email which consists of invoice, product tracking details and expected delivery time.

Email: When customer signs up for an account he starts receiving mails regarding the currents sales and promotions.

Shipment: The product travels through various hubs and finally reaches to the customer.

V. SYSTEM BEHAVIOUR

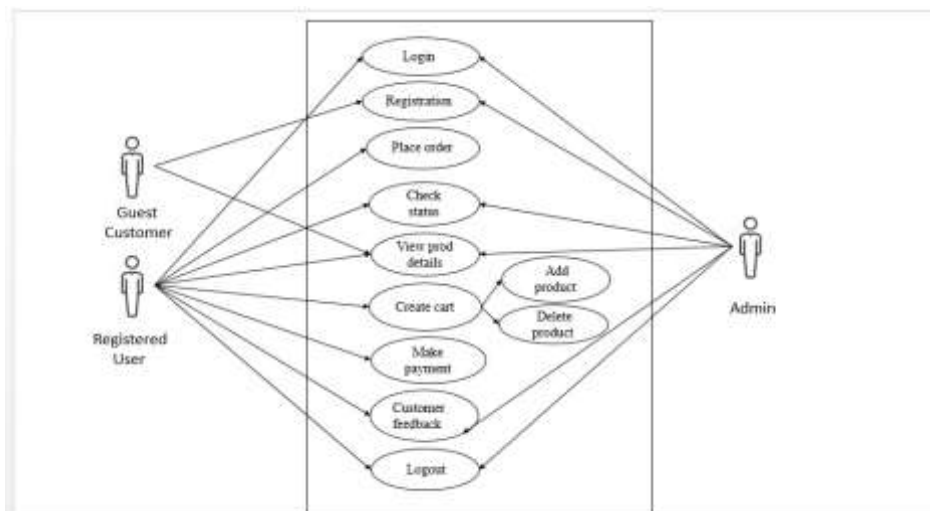


fig V: use case diagram

Guest Customer: The guest customer can only do registration and view products. He can perform other tasks once he becomes a registered user.

Registered User: A registered user has the authority to perform all actions i.e. place order, check status, view product details, create cart, make payment, give feedback etc.

Admin: Admin plays an important role. He manages the orders and solve customer queries.

VI. SYSTEM OPERATION

Activity diagram represents the flow of activities. It is a flowchart that represents the flow from one activity to another activity. It shows the particular operation of the system. It is used for visualizing dynamic nature of the system.

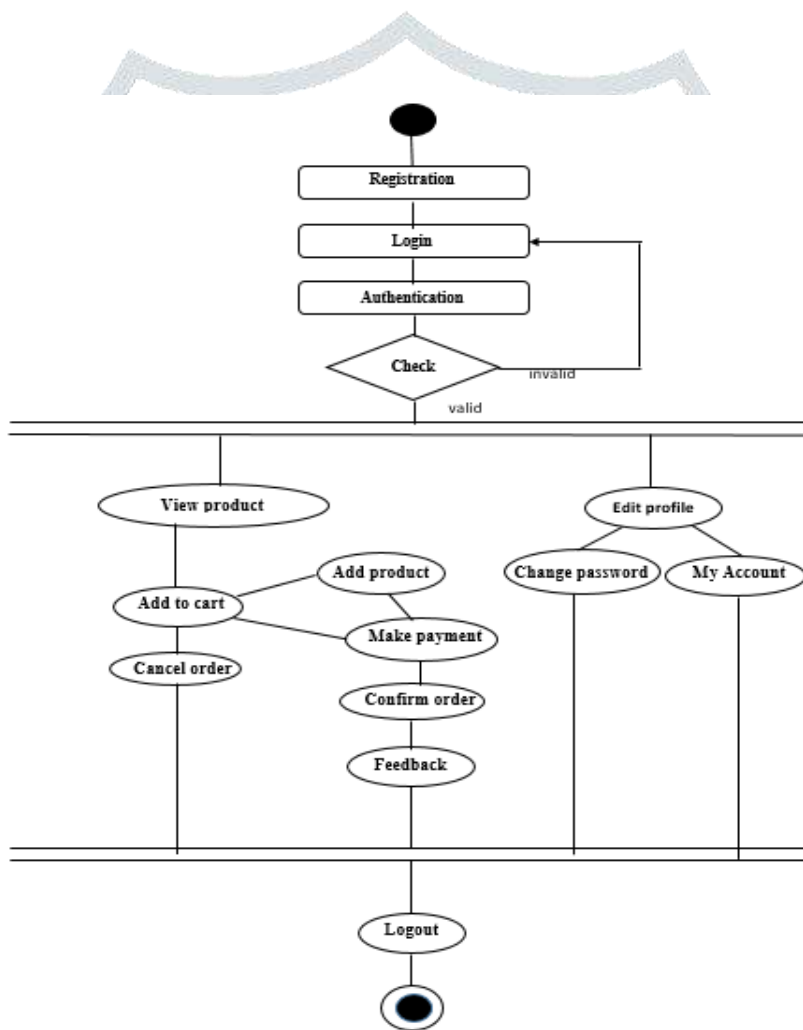


fig VI (a): activity diagram (user side)

The above diagram shows the functionalities of user side. The process starts with the registration of the user. When the customer visits a website again it is checked whether he is a valid user or not and then only he gains access to do further process. Once customer gains access to his account he can perform number of operations, he can edit his profile by changing password. He can view products, create his cart, add products to the cart, make payment and confirm order, give feedback, cancel order etc. and then logout.

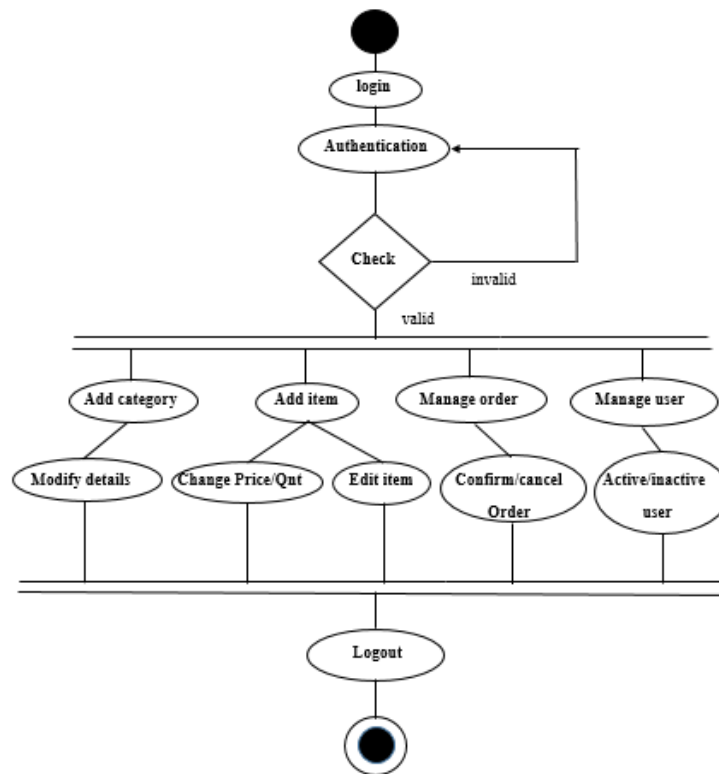


fig VI (b): activity diagram (admin side)

Similar process is carried out at the admin side but with some additional features. After authentication admin gains all the authorities. He can add categories and modify details of existing product, add new items, edit an item by changing its price or quantity, manage user by checking whether a user is active or inactive, manage orders by confirming or cancelling orders.

VII. PAYMENT MODULE

Payment Gateway is an important feature of all electronic payment card processing. It is an e-commerce application that authorizes payments for e-businesses, online retailers and traditional brick and mortar businesses. *Payment Gateways* are software and servers that transmit transaction information to the acquiring banks and responses from issuing banks. These transactions are done by transferring key information between payment portals. It is a service which authorizes credit card payments for online and offline businesses. Sensitive information such as credit card numbers is encrypted in payment gateways which ensures that the passing of information between the customer and the merchant is done securely.

In general, the Payment Gateway allows the administrator to receive payments from the users to track the incoming and outgoing payments. The Payment gateway also includes functions that are designed to support common types of payment services and credit card payments. Every time a payment is credited, a payment transaction should be created and receipt or invoice is generated based on the user request. Payment transaction functions as a basic receipt for successful payments or a log which indicates the payment failures.

A payment gateway is a front-end technology that reads payment cards and sends information of the customer to the merchant acquiring bank for processing. The main job of payment gateway is to validate customer's credit card details securely, make sure the funds are available for the payment and get you paid. The technology which is used for payment gateway may differ for online merchants and the brick and mortar businesses [3]. It is differently constructed for both online and brick and mortar business but the transaction process remains same for both.

CASHFREE:

Cashfree is integrated payment gateway. It provides widest range of payment options. It accepts Visa, Master, Rupay, Maestro, Amex cards. It also supports 70+ netbanking options and mobile wallets like Airtel, Freecharge, Mobikwik.

PAYPAL:

PayPal is a versatile gateway. It accepts credit and debit card payments as well as payments done through a registered PayPal account. PayPal is an existing e-commerce solution hence large number of donors may already have a PayPal account. It is a global payment platform available in more than 200 countries across the world. PayPal has zero and free maintenance charge.

PAYTM:

Paytm is India's largest mobile payment and e-commerce platform. It initially started as an online mobile and DTH recharge service and has an online market place today. Its setup and maintenance charge is zero [5]. Paying through Paytm is beneficial for small e-commerce merchants. It can be integrated in environments like PHP, ASP.NET, JSP.

From the various options available we will implement PayPal payment gateway for our website as they offer fraud protection, provide live support and work with all e-commerce platforms.

VIII. FUTURE SCOPE

Mostly all online buying decisions are made on social media. Advertisement and promotions on social sites have increased the chances of generating transactions. Companies are working to innovate the delivery process so that the human efforts and time can be shortened. Statistics suggest that the future of internet lies in mobiles [4]. Google is also working on its own "Buy Now" button that will allow the customers to search for a particular product on google itself and purchase it with a single click.

IX. CONCLUSION

Online shopping is a new experience and has created a great impact on the lives of consumers in very short period of time. It is growing constantly with advancement in technology. Due to rising internet and higher incomes there is a rapid growth in e-commerce. It has emerged as a cost effective way of doing business. By focusing on consumers online shopping behavior companies are succeeding in getting more online customers. We are creating a website which will give unemployed people a platform to showcase their skills through which they can gain some income.

X. REFERENCES

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