



Article Title: **Multi-Vendor System**

Multi-Vendor System

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ABSTRACT

Multi-vendor market place allow the vendors sell their products by setting up an exclusive store front. The merchants can oversee co-ordinations, stock, item increments, and so on at their own end. The proprietor of the commercial center can acquire a commission on the offer of each item or by the other income age models. Online e-commerce sites are becoming more. Popular these days and generally meant for online shopping. Every person now-a-days is likely to buy products online as there are more discounts, reviews, ratings of the products. Huge number of alternatives are retrieved for the single user feature input set for a user interested product leading to information overload. This large amount of information will confuse and stop the consumer at some point of purchase. Moreover if the customer is likely to buy the same product with less price, he needs to visit as many sites for the best product. This prompts draw the client's significant time and exertion. In this paper we separate the information from some online business sites by web rejecting devices. We consider the price, rating, reviews, shipping and cash on delivery basic features from the extraction. Then collect the data from n domains to a single domain apply normalization. Then based on the attributes and features we calculate weight to each product and stored in a sorted order. Based on the user input the top-k products are displayed. Therefore the information overload is reduced and the cross comparison is displayed.

Keywords: Laravel, PHP, Hosting Server

1 Introduction

In this project all the sellers register themselves with web system. Dealers can transfer there item available to be purchased. Seller provide all the details about that product. Just confirmed merchants can sell there items [1, 6, 8]. Customer can choose the product according to his choice and can proceed for the payment. All the methods used for payment are secure. Admin can see the products uploaded by the seller and can assign a suitable percentage of commission to the seller. The distinction between a marketplace and a traditional e-commerce store is essential [1,2,6,8]. In my experience, when marketplace builders minimize these differences, they make decisions that set their marketplace up for a future of technological hardship and inability to scale. Multi-vendor stores have the technical infrastructure to support the listing and sale of thousands of products across a vast range of categories through a huge number of sellers. The multivendor business model is also known as the 'zero inventory model' since platform owners mostly don't hold any product inventory of their own. This is another major reason why the demand for multivendor marketplace platforms is going up. A multivendor



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marketplace is an e-commerce platform that empowers multiple vendors to sell their products from one storefront. Multivendor store gives shoppers a huge catalog to choose from and provides sellers with a bigger base of ready-to-buy customers.

Think of multivendor platforms as shopping malls. The biggest difference between multivendor marketplace and regular online store is that prior has the technical capabilities to support multiple sellers but latter doesn't [3, 6, 8].

3 Recent works

It is a web content management system used to publish blogs and evolved to support publishing other webcontent, including more traditional websites, mailing lists and internet forum, media galleries, membership sites, learning management systems and online stores. It is developed by Matt Mullenweg and Mike Little during 2003. So the main disadvantage of this work is that we cannot do custom designs. All the functionalities are written by plugins. So when we create some application or websites hundreds of plugins need to create and maintenance and updation of these plugins are overhead. In order to add new functionalities need to write hundreds of lines of code for single plugin.

Drupal is developed by Dries Buytaert in 2001. Drupal can also be referred to as content management system (cms). This system allows to create website but only static pages can be created with much ease. To create dynamic pages we need more complex custom functions. More clear static pages show user with original webpage without changing content while dynamic pages change content with respect to user's location, etc.

Photoshop is primarily used as photo editing software and then evolved to create some static webpages. Photoshop is developed by Brothers Thomas and John Knoll in 1988. Moreover the photoshop focus on designing the web pages rather than the functionalities. Softwares like photoshop, adobe can create beautiful custom logos for websites but in order to develop fully functional webpages or application photoshop is not the right choice.

There are so many low code platforms are available in internet. Air table, Figma are some softwares that require very less coding. It more focuses on drag and drop functionalities to create application and web pages. It is more suitable for prototype making. Whenever the client need custom design and functionalities these platforms not reach up to the mark. For a startup business these platforms are ideal not for an enterprise level.

4 Proposed work explanation

This is multivendor Ecommerce and social site. This site is fully dynamic which gives perfect tangible result to users. Main purpose to make this website is to connect all the sellers together. As well it would be connecting all the small and top seller together after visiting web system, Web system will give three options to select.

- 1) I am customer
- 2) I am service provider



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Case I: If I am a customer and I want to buy product

In this case I will select “I AM CUSTOMER”. Subsequent to tapping on client button. This will redirect me to register. I will be register with this website. I will give my data. At that point I will get confirmationemail from site. After authorization I will be able to see all the products. I will search for products according to my requirements. Then website will be ask me to add area name. If we check out then it ask for billing details which are as follows: First name, Last name, Country, Street address, Pin code, City.

Case II: In this case I am seller

Company need to register me with this website. In this case I will select “I am seller” from three options. On sign up form I will put following company's details: First name, Last name, Email, Phone number, Product detail, Create password.

In authentication process they will check my: Aadhar card, Verify email id, Verify phone number, Verify address

The Ultimate Guide to Managing a Thriving Multi-Vendor Store o Why a Multi-Vendor Store?

Challenges of a Multi-Vendor Store, Components of a Multi-Vendor Store, Managing Inventory, Charging Seller Fees, Managing Orders, Shipping Orders, Paying Vendors, Sales Reports, Branding the Marketplace, Choosing an Online Store Platform

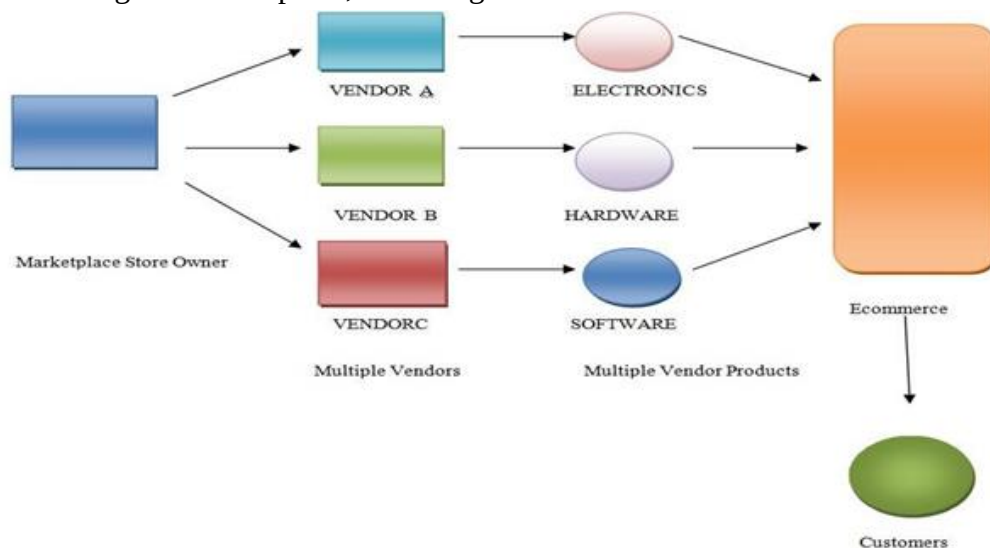


Figure 1: Block Diagram of Multi-vendor System

Advantages

Secure system, Multi Authentication System Using Laravel Jetstream, Alert Message, Secure hosting on server.



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Techniques and methods used

Table 1: *Summary of techniques used in my multivendor system*

Techniques	Functions
PHP	Hypertext preprocessor programming language used to build my multivendor system
Laravel	Framework used to apply PHP
HTML & CSS	For creating user and admin panel
CRUD	Create, read, update, delete the customers, admins, products, orders
STRIPE	Payment gateway used to test payments of orders.
Notifications	Done through email and sweet alert system
Barry VDH	Package used to implement download billing status through pdf file
Laravel Search	Searching the products using Laravel search system
Paginate	Arranging Products via Laravel Pagination
Comment & Reply System	Reviewing the products and services
XAMPP	Local server for testing my multivendor application
MYSQL	Storing data
Deployment server	So that my application will reach customers via online

4 Result and discussion

Hereby after implementing my multivendor system using php and Laravel framework we can overcome the disadvantages of content management systems, static pages, plugins, prototype, writing hundreds of lines of codes and better than low code platforms.

5 Conclusion

We'll begin with motivations to make a multi-seller online store. Multi-dealer stores offer an entire space of possible results single trader stores can't match. With a multi-seller store, you can make a site like E-inlet where anybody can sell anything or a specialty multi merchant site zeroed in on a particular item class like workmanship or gadgets. The possibilities are practically wearisome. By welcoming various traders, stores can offer things they can't offer themselves. Various sellers can likewise help increment traffic to the store and decrease store



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the executives time. Moreover, as the head chief, you don't have to keep a stock. You can go about as a mediator for providers rather being a provider yourself. You can likewise bring in cash from charging merchants an expense for selling on your site. This alternative opens up another wellspring of income for your business. There are additionally an abundance of advantages for dealers. Merchants don't need to experience the pressure of opening another store. They can likewise exploit existing site traffic to improve perceivability. Selling items on a multi-seller webpage implies the majority of the advantages of having an online store without the overhead problem. We turned out a portion of the explanations behind building a multi-seller store. Presently we'll get into the stuff to assemble an effective one. On the off chance that you have experience dealing with a solitary merchant store, you may think the change to a multi-seller store will be simple.

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