

A New Cloud Based Solution for Online Retail Management System

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Abstract: The part of the urban populace with web go about as a sole medium on it to give the offices the agreeable way upsetting the customary channels of conveyance of the littlest of products or administrations to the client. Rather than Commission based channel now the concentration is moving completely to the esteem included channels. The Online Retail web application is give finished answers for merchants and additionally clients through a solitary entryway utilizing the web as the medium. It will empower retailers to setup online shops, client to peruse diverse items through the shop and buy them online without visiting the shop physically. The organization module will empower a framework head to endorse and dismiss demands for new shops and keep up different arrangements of shop classification. The site will likewise be founded on the GPS and it will give you data about products that is accessible in a particular zone so on the off chance that anybody is new to some range and needs a specific thing then one doesn't need to go the distance for looking it. While keeping up people businesspeople locales is exceptionally perplexing errand and keeping up information for the same is likewise extremely convoluted to each retailers. We propose to build up a Retail offering and obtaining administration structure which incorporates every one of the fundamentals of the normal retail online frameworks with another interface and working framework. We propose to utilize the most recent offerings on Open Source stage and Cloud Computing to convey the last item. Our model sent on cloud design, so create one site in which every one of the venders signed into their record and keep up their shop data with respect to offer and buy. Retailers keep up information physically in customary framework and upgrade it occasionally when thing sold or buy, our propose show helps businesspeople to focus on their business as opposed to centering information upkeep. Our model keep up offering data and in addition thing accessibility in stock detail so arrange put naturally if thing comes to underneath as far as possible.

Keywords:- hybrid Cloud, Customer Management, Ordering System, Inventory Management, Financial transaction management, Logistics, Vendor Management, Marketing, - Complaints Management, Security, load management.

I. Introduction

Cloud computing remains the focusing area since past few years. Cloud computing is basically a network (internet) based innovative model and is referred as platforms, infrastructure and software sold as a service. The main objective or goal of cloud computing is to reduce the infrastructure cost burden from the organizations. In addition to this, it offers organizations better performance, security and less maintenance cost. Cloud computing is being promoted by many of the large companies. In cloud computing a program or application can be run on many computers. Cloud has become the essential necessity to survive in the market, that's the reason for most of the companies to move towards the cloud.

You have a lot of options to choose from. When you shop normally you have some constraints like brands, location, pricing. Shopping online gives you freedom to shop from anywhere throughout the country. All the brands are available, no location barriers, various options. But the different shops have their different systems. As per customer satisfaction such local systems are unable to fulfill

customers demand so the different retail management framework is introduced.

Online Retailing is undoubtedly one of the most frequent and necessary works of every person. However, as the life pace becomes faster and faster, people are less likely to spend time and energy on doing it with personally visiting different shops. Fortunately, thanks to the vigorous development of e-commerce, people are now able to fulfill this work through online shopping. Moreover, people can use not only computers but also various types of handheld devices, e.g., PDAs, smart phones and tablets, to surf websites so as to do their shopping easily as information technology advances recently. As a result, shopping different things online becomes more and more popular. Under such circumstance, how to make online purchasing quick and efficient becomes a vital issue in e-commerce to fulfill the demands of the customer.

So considering all the things above a new methodology is developed in which a platform provided for different retailers as well as different customer considering different things like desire of every retailer & customer also

the satisfaction. We know different shopkeepers want to focus on to increment their business objectives but unable to focus on it and only wasted time in maintain the stock information and purchasing histories so here the automated perceptions are developed to maintain all such things. The another important thing for all retailers is to fulfill the demand of his customer if the item is not available in the shop the shopkeeper unable to proceed so it helps to maintain shops stock as well as helps to inserting new products on to the shop as per customer and retailers point of view. Generally middleman acts as a mediator during the transactions so now there is a lot of discussion of 'cutting the middleman' and moving to direct delivery from producer of product / service to consumer. And the Internet is strongly enabling this. This does not mean that the traditional channels did not add any value from a perspective of the customer experience / satisfaction. Retail management modules have several benefits that Customer Management, Ordering System, Inventory Management, Financial transaction management, Logistics, Vendor Management, Marketing, Complaints Management, Load Management Security, etc. We want to give full freedom for the shopkeepers to set up their shops online system

We know generally data of every store is stored onto his local databases or small servers but here the open source platform is provided with the cloud computing technology. The cloud computing methodology is nothing but the practice of using a network of remote servers hosted on the Internet to store, manage, and process data, rather than a local server or a personal computer. So it will definitely beneficial for all the customers and also retailers if the data is available at a single location. There is also some related work about this schema is introduce in this paper that the online groceries shopping recommendation, the cloud security issues, and also the load manager strategies is implemented.

II. Related Work

In Today's, individuals are utilizing web as one of the fundamental need. Online is the new enormous thing. Everything from a little stick to huge home furniture things are accessible online for the exchange. Individuals are having straightforwardness to purchase all that they need. Purchasing things online is advantageous in such a large number of ways. As a matter of first importance it spares time, it is helpful. The Web based business is likewise have certain advantages that speedier purchasing/offering system, and also simple to discover items. More reach to clients, there is no hypothetical geographic confinements. Low operational expenses and better nature of administrations.

In paper [1] an audit of the articles and business reports identified with buyers' shopping for food basic leadership handle, in both disconnected and online retail channels. The goal was to obtain a general review of shopping for food, in what relates to this exposition and consequent research questions, and in that capacity the attention depends for the most part on the decisional stage and affecting pre-decisional period of the basic need customer basic leadership handle. In light of the result of the writing survey played out, a reasonable structure that guided the outline and execution of the experimental reviews, going for giving responses to the proposed look into inquiries, is additionally displayed.

In paper [2] a prospect about online shopping for food is demonstrated where we can see that it has turns out to be increasingly well known as of late. To encourage the buy procedure, numerous online stores give a shopping suggestion framework to their purchasers. In this way, the bland suggestion frameworks for the most part consider inclinations of a customer in light of his/her buy histories. All things considered, it is noticed that there is nothing to do with the correct planning to buy an item from the view purpose of item recharging or monetary acquiring. Consequently, we build up another suggestion conspire particularly for online shopping for food by consolidating two extra contemplations, i.e., item renewal and item advancement. We trust that such another plan ought to have the capacity to give a superior suggestion list which fit buyer goals, needs, and spending contemplations lastly support exchanges however there is just a proposal system is appeared with the single servers yet rather than this cloud computing innovation is more

In paper [3] Cloud Computing is an as of late developed model which is getting to be distinctly famous among all endeavors. It includes the idea of on request benefits which implies utilizing the cloud assets on request and we can scale the assets according to request.

Cloud computing without a doubt gives unending advantages and is a practical model. The significant worry in this model is Security in cloud. This is the reason of many endeavors of not inclining toward the cloud computing. This paper gives the survey of security research in the field of cloud security. After security investigate we have displayed the working of AWS (Amazon Web Benefit) cloud computing. AWS is the most trusted supplier of cloud computing which gives the astounding cloud security as well as gives fabulous cloud administrations. The principle point of this paper is to make cloud computing security as a center operation and not add on operation.

In paper [4] Cloud have an association display, like Open private and Half and half, and we are the consideration on Mixture disseminated computing for appropriating load in different system, for passing on load it required weight equality structure , In this paper we fuse best model of weight leveling structure related to hybrid cloud. Stack altering in the conveyed computing environment essentially influences the execution. Incredible weight conforming makes circulated computing more capable and upgrades customer satisfaction. In light of the cloud allocating thought with a change instrument to pick assorted strategies for different conditions.

a. Proposed System

The Successful Retailing is nothing but to fulfill the customers demand that what they want. Every customer wants his product with the good quality, lowest possible prices with a pleasant experience. There are different points regarding with the traditional retailing like shortage of goods and items in the stores that are not available at a particular time for their customer. Another problem is needed to call distributors to find the product is available or not. The customers also wait for to check availability and product. As customer placed order sometimes the order may receive late.

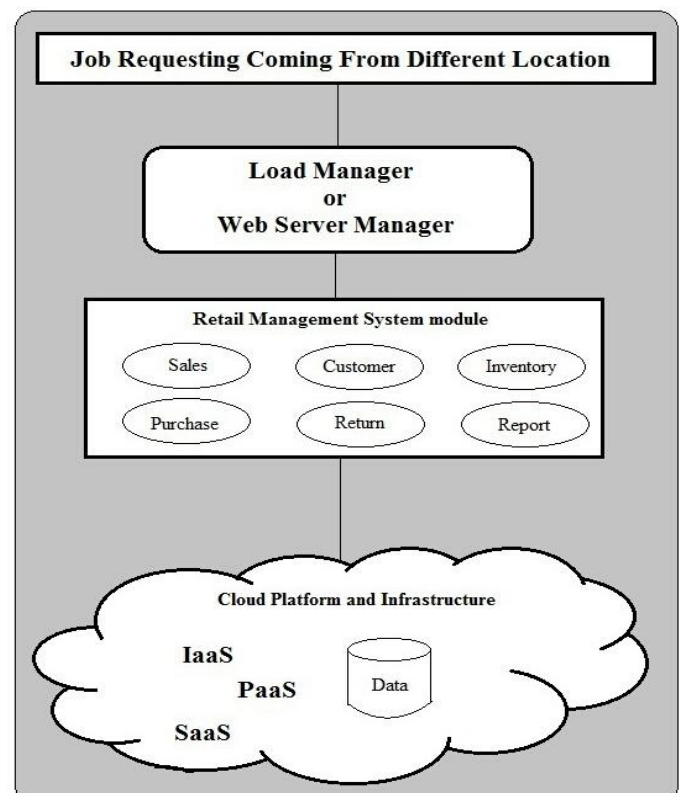
So to overcome such problem we proposed a new system in which a framework is designed using cloud computing technology. Cloud computing is a type of Internet-based computing that provides shared computer processing resources and data to computers and other devices on demand. It is a model for enabling ubiquitous, on-demand access to a shared pool of configurable computing resources (e.g., computer networks, servers, storage, applications and services),which can be rapidly provisioned and released with minimal management effort. Cloud computing and storage solutions provide users and enterprises with various capabilities to store and process their data in third-party data centers that may be located far from the user-ranging in distance from across a city to across the world.

The main idea for this paper is to give such a platform for the vendor where they can put up their shop sand deal with customers according to themselves. The website or the framework provider will act just as a platform for customers to act with the shopkeepers. Every shops data is store is deployed on to the cloud while the shopkeeper have made continues observation on their data. If item is in the stock then then it will shows the warning to place order.

Different orders are placed by different customers so it also plans for the fast delivery of the item. It will also help to recover from the shortfalls.

The whole data is store on to the cloud so maintenance and security also plays an important role while building it. Instead of traditional databases cloud store all shops into their own account. It will also help to inform sellers regularly for goods and items availability. Seller does not need to put attention in shortfall items system will do automatically. Data store on cloud in encrypted manner so only seller and CSP will decode data and observed it. The system design is shown in the figure which includes different modules like Job requesting, load manager, different retail management modules and the cloud architecture. Several jobs are requesting from different users situated at different locations, the load manager or web server manager is implemented to balances the system and provide gateway to the users. As per users request the retail management modules are located and request forwarded in cloud environment, the desired data is fetched and the respond will be generated.

System Architecture and Design



Conclusion

In this paper we are proposing an idea to create such a cloud based Retail Management Framework that will be used

locally. That helps to local vendors and gives the ease of operation for both customers and the vendors by not getting into logistics and payment related transactions. In this paper we are proposing reliable data accessing over cloud architecture and provide data filtering technique over cloud in future. We also propose to give a local platform to the vendors to come and setup their shop on our website according to their own liking.

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