

CRACKBOG - ORGANISING COMMERCE WITH TECHNOLOGY FOR EVERYONE

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Abstract

In today's scenario we have different apps for using services of different Vendors or Service Providers which often causes confusion. A specially designed portal that brings various services together from diverse sources in a uniform way into users dashboard would make things a lot simpler. Using algorithms like 'Market Basket Analysis' or 'Age Rank' the feeds to be displayed on the user's dashboard is optimized which in turn provides better market penetration. Our Portal enables rich collaboration between customers, suppliers and service providers. Our Service Providers can create fully-branded public stores that connects customers with service providers directly and with relevant data, content and business processes.

Index Terms - Collaborated, Single hybrid, Robust Operations, Firebase, Real Time, Service Oriented (SOA)

1. INTRODUCTION

Our project presents an effective solution to enhance the effectivity and usability of different web portals which are used for different purposes ranging from Online Shopping as well as all other sectors. The solution of this problem can be achieved by bringing all of them into a single ecosystem, with one database. Our Portal enables rich collaboration between customers, suppliers, service providers and distributors. The next step is using algorithms like Market Basket Analysis, Image Detection etc. in order to understand and predict the requirements and desires of the user in order to gain better market penetration.

1.1 Unified Web Portal

A price comparison portal, sometimes called a price comparison website, Price Analyzing tool, Price Scrap Bot, shopbot or Shopping comparison engine, is a search engine that shoppers use to filter and compare products based on price, ratings, reviews, number of pieces sold and other criteria. In recent years, many off the shelf software solutions have been developed that allow website owners to take price

comparison websites' inventory data to place retailer prices (context adverts) on their blog or content the only website.

The objective of this proposed method is to eliminate the need of so many redundant portals and bring all of them into a single ecosystem. The solution of this problem can be achieved by bringing all of them into a single ecosystem, with one database.

1.2 Location Based Search

Location-based search makes it appear that virtually anything is within area our reach, no matter where we are. Searches can be specific or general or hybrid, as most search engines are highly capable of pinpointing exactly what we are looking for and provide results accordingly.

2. Graph Based Search Query Response

The query response generated is a comparison graph which compares the price of the product searched for among all the E-commerce websites, the sellers registered with us, and all pre-owned products ads setup on our portal. It gives a complete descriptive view of the deviation in the product price at different vendors.

Customer may choose among all different options as well a pre-owned products. Adding the pre-owned products in the same is to encourage the use of pre-owned and making the world a greener place.

In our future work we will implement it for advance management which may perhaps include adding disciplinary as well as government bodies into a software hypothesis.

We cover the essentials so that our users can monetize their business and focus on their users. Using Real Time Database which ships data changes or syncs in real time causing no delay and less concurrency management tasks requirements.

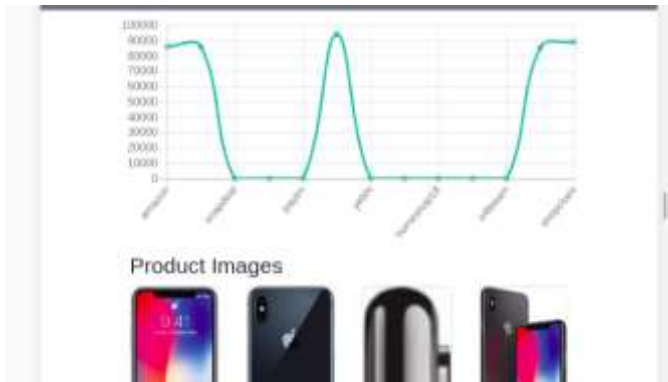


Chart -1: Graph Based Search Results

Our portal enables a location based product search response service. Location based offer suggestion is in the framework which could trigger a notification into the client's application as he changes his geographical location or he enters into a fixed threshold range of the vendor giving a certain offer.



Fig -1: Current Market Scenario

To sign a user into your app, you first get authentication credentials from the user. These credentials can be the user's email address and password, or an OAuth token from a federated identity provider. Then, you pass these credentials to our custom Authentication SDK. The backend services will then verify those credentials and return a response to the client.

After a successful sign in, you can access the user's basic profile information, and you can control the user's access to data stored. This makes the archetype fully manageable and controlled where an administrator can slice and dice data or rather can drill down or vice versa in order to find answer to analytics queries.

Our portal brings things together earlier for which user had to rely on different platforms and facilitates the small shopkeepers and household producers to sell their products and earn more. This portal procures help for small service providers like plumber, electrician etc to establish their business and earn more. It lets you exchange goods which you think no more of your use with something you need.

Use of association rule mining and other machine learning algorithms would provide us with a goldmine of hypothesis or models which could be used in various aspects like better

customer retention, customer behaviour prediction and much more.

3. CONCLUSIONS

Use of a unified portal with a common database in a complete ecosystem of Apps, Websites and Standalones makes management of a community easy and effective. Insights and ML implementations help us manage resources better and in advance. This system if implemented is capable of managing complete trade and commerce of a community replacing currency notes totally with Digital Currency and a greener economy. Having all data about a community in a single warehouse can be treated a goldmine of analytics and Machine Learning Patterns.

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