

Aqua Phoenix Agency Service Portal

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ABSTRACT

This paper presents the issues on the formation of the aqua phoenix agency service portal. In early, Organization use systems but they does not provide well services to the customers. Customer satisfaction is very important for every organization; either they are service sector or the privet sector. The principal of organizations is to increase profits and to less cost. Profit increasing can be achieved through increase in sales with lesser costs. We develop aqua phoenix agency service portal for aqua phoenix agency. Aqua Phoenix Agency is now been located in prime industrial complex at SATARA MIDC with high end production facility.

Keywords: Estimation, Quotation, Multidimensional Data Services, SMS gateway, Product.

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I. INTRODUCTION

In existing system is work fully manually. In manual system all work done on paper so it is very time consuming process. Lots of time consumed for each report generation. New customers are included then paper work will be automatically increased. It is not easy to search information about the customer. System does not provide services like as SMS services. System provides easy and quick search for customer details. Systems can immediately getting data and reports like date wise report, name wise report, inquiry report. In system customer can be gives complaints regarding to the products and filter related. This system contains four modules such as Admin, User, Dealer and Customer.

Admin is module used to survey the whole system. User is part of the admin it contain the information of estimation and quotation of product.

Estimation contains the information approximate price of that product. Quotation contains the information about customer product requirement which they want. Dealer module provides the services to the customer. Customer is one of the people which purchase the products.

II. SYSTEM ARCHITECTURE

The purpose of the system to overcome company working problem we develop this application. The purpose of the project is to provide web application reduces the manual

work, maintaining accuracy, increasing efficiency and saving time. We develop aqua phoenix agency service portal for Aqua Phoenix Agency. Provide the customers satisfaction when they purchase any products.

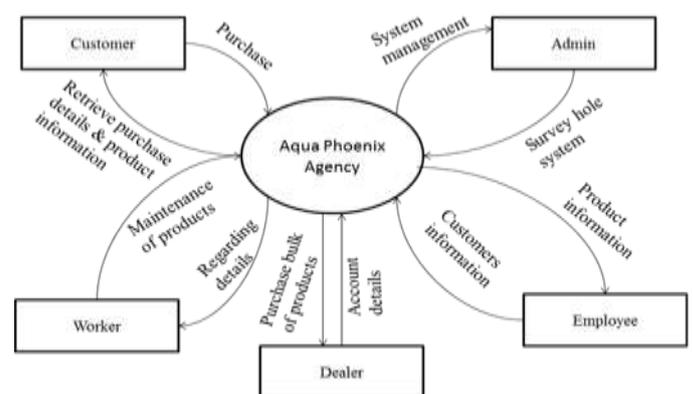


Fig1. System Architecture

There are four modules in the system.

Modules:

1. Admin
2. Dealer
3. Customer
4. Employer
5. Worker

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III. LITERATURE REVIEW

Ralph Kimball (August 1996) [1] proposed Implementing a Dimensional Data Warehouse with the SAS@System.- A dimensional model is the proposed data modeling and design technique for the structuring of system data. When considering a measure such as revenue or sales, it is important to consider what data is available.

Agrawal, R. et al. (September 1995)[2] proposed Modeling Multidimensional Databases. IBM Research Report, IBM Almaden Research Center presents a multidimensional cube with a set of basic operations designed to unify the divergent styles in use today and to extend the current functionality. The system provides symmetric treatment to not only all dimensions but also to measures. The model also is very flexible in providing support for multiple hierarchies along each dimension.

Per Westerlund (august 2008) [3] proposed Business Intelligence: Multidimensional Data Analysis- the data cube, which is a multidimensional database model that with various techniques has accomplished an incredible speed-up of analyzing and processing large data sets.

Hema Dubey et al. (2011)[5] proposed An Improved Page Rank Algorithm based on Optimized Normalization Technique.- The Page Rank algorithm calculates the rank of individual web page. A fast and efficient page ranking mechanism for web retrieval remains as a challenge.

IV. METHODS

This aqua phoenix service portal is based on a multidimensional data model which views data in the form of a data cube. A data cube, such as sales, permits data to be modeled and viewed in multiple dimensions. Dimension tables, such as product (product name, type, range), or time (day, week, month, quarter, year).Fact table carry measures and keys to each of the related dimension tables. For example, in our project we know we have customer, products, and dealer. If we were to visualize this as dimensional model, we would first visualize the three primary subjects: customers, products and dealer in a cube. Imagine twelve boxes representing the months of the year into which our cube is placed. When the box is placed in the JANUARY box, the cells carry data for JANUARY. When in the FEBRUARY box, the cells carry data for the month of FEBRUARY, and so on. Even though the basic cube principles are the same, the cube can be implemented indifferently ways. Different vendors advocate different architectures, and some offers the possibility to choose an architecture for each cube that is created. There are two main architectures that traditionally have been discussed in

the field of database research; Multidimensional OLAP (MOLAP) and Relational OLAP (ROLAP).Multidimensional Online Analytical Processing is based upon the philosophy that since the cube is multidimensional in its nature, the data should be stored multidimensional. Thus, the data is copied from the data warehouse to the cube storage and aggregations of different combinations of dimensions are pre-calculated and stored in the cube in an array based data structure. This means that the query response time is very short since no calculations have to be done at the time a query is executed. At the other hand, the loading of the cube is an expensive process because of all the calculations that have to be done, and therefore the data cube is scheduled to be loaded when it is unlikely to be accessed, on regular intervals such as once every week-end or every night .A problem that has to be regarded when working with MOLAP is data explosion. This is a phenomenon that occurs when aggregations of all combinations of dimensions are to be calculated and stored physically. For each dimension that is added to the cube, the number of aggregations that is to be calculated increases exponentially. Relational Online Analytical Processing is, just as the name suggests, based on there national model. The main idea here is that it is better to read data from the data warehouse directly, than to use another kind of storage for the cube. As is the case with MOLAP, data can be aggregated and pre-calculated in ROLAP too, using materialized views, i.e. storing the aggregations physically in database tables. ROLAP architecture is more flexible since it can pre-calculate some of the aggregations, but leave others to be calculated on request. Over the years, there has been a great debate in the research field whether The debate has however faded, and in the last decade most researchers seem to argue that ROLAP is superior to MOLAP, among others a white paper from Micro Strategy [10]. The arguments are that ROLAP perform almost as good as MOLAP when there are few dimensions, and when there are too many dimensions MOLAP can't handle it because of the data explosion. Already with about 10-20 dimensions the number of calculations becomes tremendously large in consequence of the exponential growth. Another important aspect is the greater flexibility of ROLAP; all aggregations don't need to be calculated beforehand, they can be calculated on demand as well. Page Rank Algorithm are:

- It is the query independent algorithm that assigns a value to every document independent of query.
- It is satisfied independent Algorithm.
- It concerns with static quality of a web page.
- Page Rank value can be computed offline using only web graph.
- Page Rank is based upon the linking structure of the whole web Page.
- Rank does not rank website as a whole but it is determined for each page individually.
- Page Rank of pages T_i which link to page A does not influence the rank of page A uniformly.
- More the outbound links on a page T, less will page A benefit from a link to it.

V. RESULTS

A.

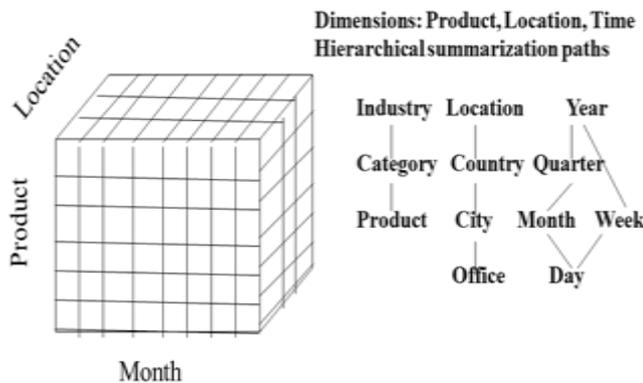


Fig2. Multidimensional data

Product	Year	Location	Sales
Water purifier	2016	Satara	160
Gas geyser	2016	Satara	20
Gas stove	2016	Satara	30
Atta chakki	2016	Satara	10

Table1 .Sales table

The table1 represent the dimensional three is product, year, location and sales. The multidimensional array used to stored information of product. A cube is group of data cell arranged by the dimension of the data. Consider sales of product, three are the major dimension: product, year, location. Sales as multidimensional cube.

B.

Page Rank ranks pages based on the web structure. Google, which among search engines is ranked in the first place, uses the Page Rank algorithm. Using page ranking algorithm, compare our products in different websites and then gives results. Fig3. Shows the no. of product used, by the PAGE RANK algorithm.



Fig3. Page Ranking

VI. CONCLUSION

In this paper we can use the multidimensional array concept in dealer side. Data can be stored in different dimensions. The multidimensional array is used to avoid the duplications of records in table. Using multidimensional database structure we can analyze the information related to product

and give effective result. One approach is used in novel system that is Page ranking for selecting the product and compared that product on different websites. In future we can implement novel system using the web service technology.

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