Supply Chain Management by Using Asp.Net

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Abstract:

Main objective of this project is to create a supplying environment service for both Distributors and Company registered with this site. Multinational companies like HLL (Hindustan Lever Ltd) a subsidiary of Unilever is involved in the trading of consumer goods. The company is one of the major FMCG companies operating in the country. The operations of the company are spread all over the country.

Due to its complicated network of operations the company is facing lot of problems with its distributors all over world. The present system is described below. The present system of operations includes Factories, Stock Depots and Distributors. The manufactured goods will be moved from the factory to the Stock depots located in different regions of the country. From there the distributors of the particular region will be receiving the products.

I Introduction:

Feasibility analysis is the procedure for identifying the candidate system, evaluating and electing the most feasible system. This is done by investigating the existing system in the area under investigation or generally ideas about a new system. It is a test of a system proposal according to its workability, impact on the organization, ability to meet user needs, and effective use of resources. The objective of feasibility study is not to solve the problem but to acquire a sense of its scope.

Economic analysis is the most frequently used method for evaluating the effectiveness of a candidate system. It is more commonly known as cost benefit analysis, the procedure to determine the benefits and saving that are expected from a candidate system and compare them with costs. If the benefits outweigh costs then a decision is made to design and implement the system. Otherwise make alterations in the proposed system. The assessments of technical feasibility centers on the existing system and to what extent it can support the proposed addition. This was based on an outline design of system requirements in turns of inputs, files, programs, procedures, and staff.

It involves financial considerations to accommodate technical enhancements.People are inherently resistant to change, and computers have been known to facilitate change. An estimate should be made about the reaction of the user staff towards the development of a computerized system. Computer installations have something to do with turnover, transfers and changes in job status. The introduction of a candidate system requires special effort to educate, sell and train the staff for conducting the business. The candidate system was found to be technically, economically, and behaviorally feasible.

The system was developed user friendly, needless training and improves the working environment. Justification for any capital outlay is that it will increase profit, reduce expenditure or improve the quality of service or goods, which in turn may be expected to provide increased profits. Disregarding the initial expenses, the candidate system was assessed to be feasible in all ways. Standard edition is an affordable option for small and medium-sized organizations. It includes the core functionality needed for non-mission-critical e-commerce, data warehousing, and line-of-business solutions.

For instance, all of the XML features present in Enterprise Edition are also included in Standard Edition. And while a handful of advanced OLAP features are reserved for Enterprise Edition, all data mining features and the core OLAP functionality are included in SQL Server 2000 Analysis Services in Standard Edition. Similarly, components that other database vendors charge for as separate add-on products for their highest-end editions are included in Standard Edition: Data Transformation Services (DTS) Replication (snapshot, transactional, and merge) Full-Text Search English Query Stored procedure development and debugging tools SQL Profiling and performance analysis tools.

Enterprise Edition includes the complete set of SQL Server data management and analysis features and is uniquely characterized by several features that make it the most scalable and available edition of SQL Server 2000. It scales to the performance levels required to support the largest Web sites, Enterprise Online Transaction Processing (OLTP) systems and Data Warehousing systems.

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Its support for failover clustering also makes it ideal for any mission critical line-of-business application. Additionally, this edition includes several advanced analysis features that are not included in SQL Server 2000 Standard Edition. There are four main areas in which the additional features of SQL Server 2000 Enterprise Edition are most evident: Scalability Availability/uptime Performance Advanced analysis

Enterprise Edition (64-bit) provides the most scalable data platform to take advantage of the class of Intel Itanium-based servers. Addressing more memory than any other edition of SQL Server, it scales to the performance levels required to support the largest Data warehousing and analysis applications, ecommerce websites and Enterprise business systems. Supporting up to 8 nodes in failover clustering, SQL Server 2000 (64-bit) provides a high level of reliability and availability for your mission-critical applications.
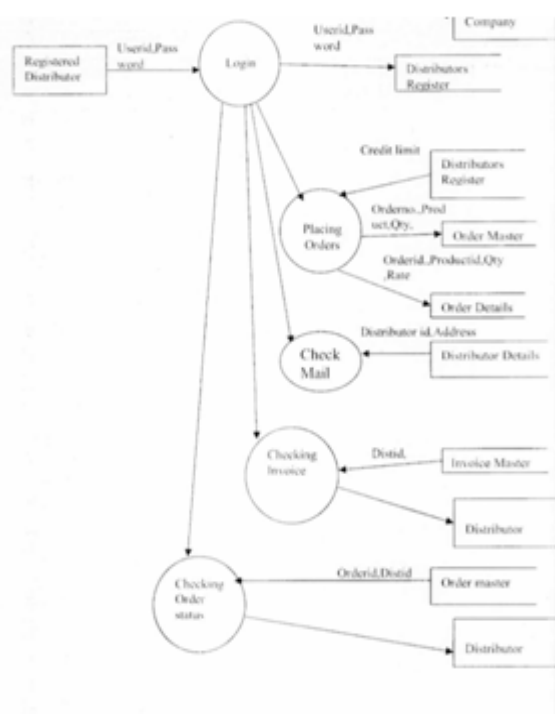

Figure 1: Flow diagram

II Testing:

Testing is the penultimate step of software development. An elaborate testing of the data is prepared and the system is using test data. While doing testing, errors are noted and correction is made. The users are trained to operate the developed system. Both hardware and software securities are made to run the developed system successfully. System testing is aimed at ensuring the system works accurately before live operation commences. Testing is vital to the system. System testing make a logical assumption that if all part of the system are correct the goal will be successfully achieved.

The candidate system is subjected to a variety of test: Online Response, Volume , Stress Recovering and security and usable tests. A series of testing are performed for the proposed system before the system is ready for user acceptance testing. Nothing is complete without testing, as it is vital for the success of the system.

2.1 Integration Testing:

The major concern of integration testing is developing an incremental strategy that will limit the complexity of entire actions among components as they are added to the system. Developing a component as they are added to the system, developing an implementation and integration schedule that will make the modules available when needed, and designing test cases that will demonstrate the viability of the evolving system. Though each program

works individually, they should work after linking them together. This is also referred to as interfacing. Data may be lost across interface and one module can have an adverse effect on another. Sub routings, after linking, may not do the desired functions expected by the main rooting.. Integration testing is a systematic technique for constructing program structure while at same time, conducting test to uncover errors associated with the interface.

Microsoft SQL Server was introduced in 1990 for the Microsoft OS/2 platform in partnership with Sybase. The product was originally ported from the Sybase SQL Server 4.x for the UNIX platform. With the introduction of Microsoft Windows NT, a second porting initiative was undertaken to build a native Windows NT version. Microsoft SQL Server version 4.2 was the first commercially available database server natively designed for the Windows NT platform. The partnership with Sybase continued, and two additional versions of SQL Server were released(version 6.0 and version 6.5)

SQLServer6.5 made improvements in transactional performance, scalability, realiability, and became one of the most widely used client server database product for operational systems on the Windows NT platforms.

As the database market evolved and the business relationship with Sybase changed, it became apparent that in order to address customer requirements and evolved SQL Server to support the next generation of database application, SQL Server products required a fundamental redesign.

This resulted in the termination of the business relationship between Sybase and Microsoft, and lead to the development of SQL Server 7.0. SQL Server 7.0 is a modern database engine architecture implemented completely by Microsoft, and is designed to address the most demanding database application requirements for operational and decision-support systems implemented today and in the future.

2.2 Validation Testing:

Data validation is done to see whether the corresponding entries made in the tables are correct. Proper validations are done in case of insertion and updating of tables. If any such case arises, then proper error messages or warning, if any, has to be displayed.

The different test cases are:

• Guarantee that all independent parts within a module have been excercised at least once.

• Exercise all logical decisions on their true or false side.

• Exercise all loops at their boundaries and within their operational bounds.

• Exercise internal data stricture to ensure their validity.

• Each module was tested and the tested modules were linked and integration test was carried out.

Undertaken in this project an acceptance test as the objective of selling the user on the validity and reliability of the system. It verifies that the system procedures operate to system specification and that the integrity of vital data is maintained. I tested the system with a large collection of records. The system is found to be user friendly.

III SQL Server 2000:

Business today demands a different kind of data management solution. Performance, scalability, and reliability are essential, but businesses now expect more from their key IT investments.

SQL Server 2000 exceeds dependability requirements and provides innovative capabilities that increase employee effectiveness, integrate heterogeneous IT ecosystems, and maximize capital and operating budgets. SQL Server 2000 provides the enterprise data management platform your organization needs to adapt quickly in a fast-changing environment.

With the lowest implementation and maintenance costs in the industry, SQL Server 2000 delivers rapid return on your data management investment. SQL Server 2000 supports the rapid development of enterprise-class business applications that can give your company a critical competitive advantage.

Benchmarked for scalability, speed, and performance, SQL Server 2000 is a fully enterprise-class database product, providing core support for Extensible Markup Language (XML) and Internet queries.

Easy-to-Use Business Intelligence (BI) Tools:

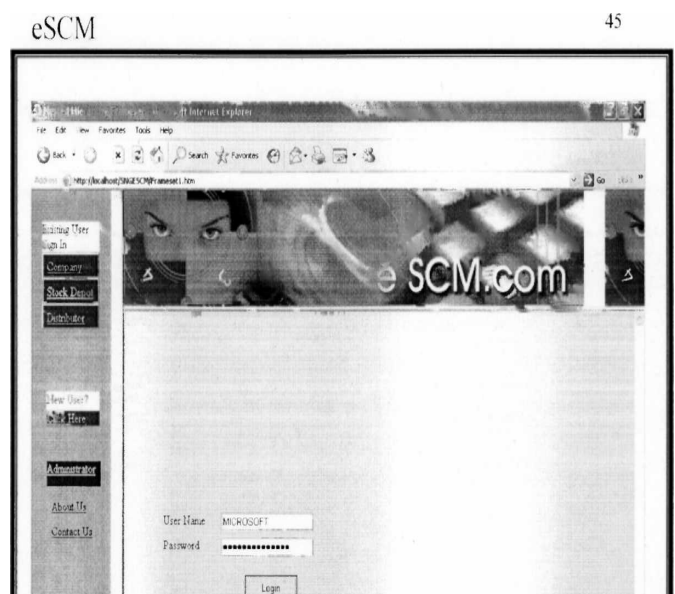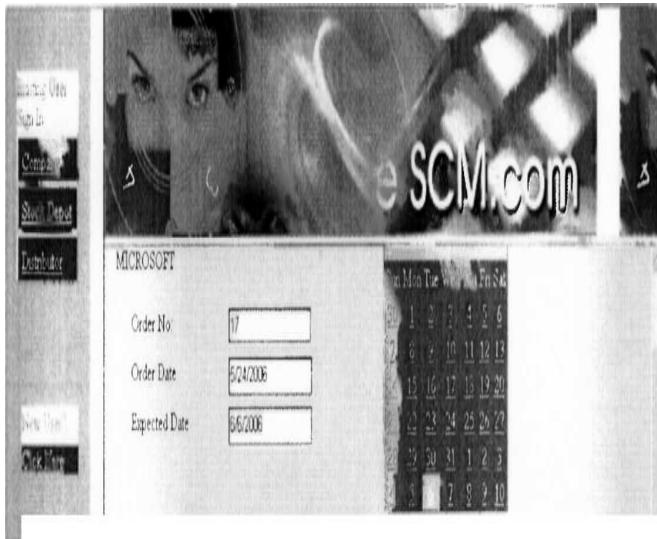**Fig 2 E scan forms.**

Fig 3 e scan login

Fig 4 e scan order

Input is considered as the process of keying in data into the system, which will be converted to system format. People all over the world who belong to different cultures and geographies will use a web site. So the input screens given in the site should be really flexible and faster to use. With highly competitive environment existing today in web based businesses the success of the site depends on the number users logging on to the site and transacting with the company. A smooth and easy to use site interface and flexible data entry screens are a must for the success of the site. The easy to use hyperlinks of the site help in navigating between different pages of the site in a faster way.

I have concentrated a lot in designing the site and formatting of the web pages. The site navigation and the customized error messages are formed in such a way that it attracts the more people to the site. The options for input data entry are as follows.

1)Add:

The adding option in each of the forms helps in keying in data to the system. Web based features like emailing of the keyed in data to the user etc. are included in this. For commercial and security reasons some of the adding options are restricted to the administrators of the site.

2)Edit:

The editing option helps in updating the user data. Web based features like emailing of the modified profile to the user etc. are included in this. For commercial and security reasons some of the editing options are restricted to the administrators of the site.

3) delete The deletion option helps in removal of data from the system. For commercial and security reasons some of the deletion options are restricted to the administrators of the site.

4)Search:

The option helps in searching for the data available in the database. Since web sites are visited by large number of people on a daily basis the searching option is very important for the end users of the site as well as from the point of view of site administrators. For maximum effectiveness we have added features like 360-degree view of search results etc.

5)Print:

The printing option helps the users of the site Print the search results as well as the updated profile of the users and other details from the site.

3.1 Output Design:

The success or failure of a software is decided by the integrity and correctness output that is produced form the system. One of the main objective behind the automation of business systems itself is the fast and prompt generation of reports in a short time period. In today's competitive world of business it is very important for companies to keep themselves up to date about the happenings in the business. Prompt and reliable reports are considered to be the lifeline of every business today. At the same time wrong reports can shatter the business itself and create huge and irreparable losses for the business. So the outputs/reports generated by the software systems are of paramount importance.

Web site such SCM, ERP and CRM deal with reports that are highly complex in nature. Other end user and e-Commerce sites also deal with reports which are considered to be the lifeline of these web sites. Reports are divided into 4

IV CONCLUSION:

The software which we developed was implemented and tested with real data and were found to be error free. Also, it is found that the system will work successfully. We tried to make the system maximum user friendly. Stock transfer is the main consideration in this project. The system is protected from any unauthorized access by giving user name and password during log in process.

All the necessary validations are carried out in this project, so that any kind of users can make use of this software and necessary messages makes them conscious of the error they have made. This software is developed with scalability in mind. Additional modules can be easily added when necessary.

The software is developed with modular approach. All modules in this system have been tested separately and put together to form the main system. Finally the system is tested with real data and everything worked successfully.

Thus the system has fulfilled all the objectives identified and is able to replace the existing system. The advantage of this system is that, this package can be easily incorporated with another package.

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