DIGITIZED SALES SYSTEM

PROJECT SYNOPSIS

OF MAJOR PROJECT

BACHELOR OF TECHNOLOGY
CSE

SUBMITTED BY
ANURAG KUMAR & PANKAJ
March 2017

The Computer Science Department
Swami Vivekanand Institute of Engineering & Technology
Chandigarh-Patiala highway, sector-8, Ramnagar, Banur
"2017"

Introduction

e-commerce:

In the emerging global economy, **e-commerce** have increasingly become a necessary component of business strategy and a strong catalyst for economic development. The integration of information and communications technology (**ICT**) in business has revolutionized relationships within organizations and those between and among organizations and individuals. Specifically, the use of **ICT** in business has enhanced productivity, encouraged greater customer participation, and enabled mass customization, besides reducing costs.

With developments in the Internet and Web-based technologies, distinctions between traditional markets and the global electronic marketplace-such as business capital size, among others-are gradually being narrowed down. The name of the game is strategic positioning, the ability of a company to determine emerging opportunities and utilize the necessary human capital skills (such as intellectual resources) to make the most of these opportunities through an e-business strategy that is simple, workable and practicable within the context of a global information milieu and new economic environment. With its effect of leveling the playing field, e-commerce coupled with the appropriate strategy and policy approach enables small and medium scale enterprises to compete with large and capital-rich businesses.

Problem statement:

In today's fast paced society, it's very hard to be competitive without using cutting-edge technology available in market. After years of business, the data has grown much for retailers. It is becoming a challenge for retailers to manage that data in an effective way. To be more productive in order processing, retailers needs a solution which can facilitate their current processes with use of technology and software.

With increased amount of orders, it is becoming difficult for retailers to manage orders in effective and efficient manner. It is very hard to go through all paper work and backtracking orders. If there is any complain or review of any order, it takes large amount of effort and time to backtrack and fix the problem. This results in loss of resources, increased time, and low output.

Workflow from order quotes, order to invoice and payments are today made manually without the help of a computerized management system. This means a lot of manual work, which leads to the loss of control over operations. Due to higher workloads and more errors, delay in the whole process is experienced on daily basis. No database exists and thus poor ability to pick out statistics on for example the existing order stock.

Problem Areas:

- Invoice Generation.
- Sending order to supplier.
- Creating customer invoice.
- Generating documents for bank (bill of lading).
- Sending Bill of lading to customer.
- Customer Management.
- Order Trace-ability.
- Financial Details management.

Scope of Project:

Scope of this project is to investigate and design a software solution which can facilitate retailers in performing their daily tasks, improving efficiency, and helping them to be more productive. This project will provide a solution through which retailers can easily manage, handle and generate all required information in their respective format when needed. It will help them to manage order details, financial data, and historical data and also in producing documents of different formats for different customers. This solution will help retailers in reducing effort spend on managing orders. It will also provide them opportunity to explore possibility of generating documents, managing financial details and analyzing historical data with use of digitized solution.

What is new?

As most of the above mentioned problems are regularly handled these days by many small-scale and large-scale e-commerce companies, we thought that some innovative features should be added to our approach towards this practice. Some of which are:

- Product Trading(exchange of products for other products between retailers/customers).
- A week-term auctioning/bidding over products by the retailer.

Feasibility Study

Technical Feasibility Study: This project contains cloud implementation and J2EE application environment. Many open source cloud service providers are easily available for prototyping purpose, and J2EE development environment(Eclipse) is easily available. The project's technical feasibility is easily achievable.

Economical Feasibility Study: This project requires a cloud deployment using Bluemix and J2EE development environment which both are available to us. JAVA is openly available and Bluemix cloud facility will be provided by the training company. Therefore, economic feasibility is easily achievable.

Operational Feasibility Study: This project requires computational algorithmic structures and basic connectivity establishment for the prototyping purpose which is easily achievable.

S**chedule Feasibility Study:** This project requires at most of 6 months for phase 1 completion.

Methodology/ Planning of work

This project will be developed using JAVA as the primary technology. Specifically J2EE section of JAVA. This project will be managed on virtual cloud storage for applications using Bluemix. All the front-end design relative to this project will be implemented using jsp/servlets.

We will create independent modules/packages for all problem areas under this topic. And develop their respective controllers and handlers for our project. Connectivity and database management tasks will be handled by separate module. Printing of Invoice and bank bills will be handled by separate module. Stock/warehouse product management will be handled separately by a module. Order trace-ability and order related data will be handled separately by a module.

We will introduce new innovative ideas to these equations as well. Just like the product trading feature. In this feature, 'A' retailer/customer will notify 'B' retailer/costumer to exchange their specific product for some product available to the 'A'. By tweaking the amount of both product exchange, if A & B comes to a deal between the products, then trade will implement after confirmation.

Also another feature we are adding is a week-term auction/bidding over products. Here 'A' retailer/customer will put a minimum bid on their product. For 1 week's term, that product will be put on shelf to be auctioned on. If any other customer increases the bid by any amount before 1 week, this product will be sold to that customer for the amount he/she bid on. Else, if the product bid is not increased by any customer, the after 1 week's term, the product will be put out of the auction shelf and 'A' customer will be notified that his/her product was not sold.

Facilities required for proposed work

- Most of the facilities required for the accomplishment of this project is software based. Including Eclipse IDE for J2EE development environment which can easily be gathered due to open source nature of this products

- Bluemix for cloud deployment which will be provided to us by the training company.

- And an efficient data-basing implementation like MySQL for integrating to the application and storing all the data logs for the project methodology.

Bibliography

- Department Faculties for Advise and mentor, CSE Dept., SVIET.
- Company trainer & guide, KVCH-IBMCE, Preet Vihar, New Delhi.
- Definitions and explanations for major topics, Wikipedia.
- Project Hosting and maintenance, GitHub.(www.githhub.com)

Project Participant/Student Details:

Anurag Kumar

University rollno : 1326453
College rollno : 2013CSE08
E-mail : anuragkumarak95@gmail.com
Telephone No. : 9501669223
Branch : CSE
Batch : 2013

Pankaj

University rollno : 1326491
College rollno : 2013CSE40
E-mail : sonispace12@gmail.com
Telephone No. : 805488223
Branch : CSE
Batch : 2013