# Analysis and Overview of Enterprise Resource Planning (ERP)

Dr. Saleh Mohammed Al-Saleem<sup>1</sup>, Junaid Qayyum<sup>2</sup>, Dr. Djamal Ziani<sup>3</sup>, Abdul Mansoor<sup>4</sup> and Fazal Amin<sup>5</sup>

<sup>1,3</sup>King Saud University, College of Computer and Information Systems Sciences, Information Systems Department <sup>2,4,5</sup>Iqra National University, Peshawar, Pakistan

<sup>1</sup>salehms@ksu.edu.sa, <sup>2</sup>junaidkhan2311@live.com, <sup>3</sup>dziani@ksu.edu.sa

Abstract—What is the best definition for ERP? If we look around so everyone accepts/agrees that ERP stands for "Enterprise Resource Planning", but actual definition is something else it varies. An ERP System is a specific application that integrates the data of all departments from an organization and often can even include customer or vendor data. Majority ERP consist of Service, Customer Relation Management (CRM), Supply Chain, Human Resource, Manufacturing & Finance. Whereas the ERP definition can change between Organizations, but the goal is always to integrate all of the pieces of multifarious organization. This paper is an overview/analysis of enterprise resource planning.

Keywords- ERP, CRM, Analysis and Planning

#### I. INTRODUCTION

An ERP is a system that integrates/put together all of the information or operations of an organization by utilizing both software and hardware to in order to achieve this. Possibly a central database is one of the most important part of the ERP, for storing information of different modules. When the term ERP was originally coined, it was used to describe systems that were designed to use multiple resources and was mostly associated with to the manufacturing industry. But today this term is used in a broader context. ERP systems can be look upon as one of the most ground-breaking/pioneering progress in Information Technology.

With the budding/rising interest of different organizations in switching from functional/serviceable to process-based IT infrastructure ERP Systems has become of the todays most prevalent IT solutions. In 2002 the spending of different organization on ERP systems were reached to \$72.63 billion [1]. Due to ERP systems integration & standardization capabilities, flexible client/server architecture, and their abilities to drive effective business reengineering and management of core and support process, organizations motivated towards ERP systems [2]. Although ERP systems have conventionally been employed by capital-incentive industries, such as construction, manufacturing, defense and aerospace and have recently been implemented and employed by finance, education, insurance, retail & telecommunication departments [3]. ERP systems are now well thought-out the standard/regular technology/tool for different organizations by implementing and employing it to achieve their desire goals and they are therefore adopting this [4].

The goal of ERP is to coalesce/unify the different functions of an organization. Nevertheless the use of ERP is not simply confine to corporations; it is although used by the Non-profit organizations, Government agencies, and other institutes. In order for a system to act like ERP, it must meet certain requirements. The software must be capable of giving functionality to one unit that would commonly have to use multiple systems.

For example, such a system that combined payroll with accounting would be an ERP. Overall ERP systems are favorable in providing flourishing support for all kind of business practice by enabling the implementation of these practices towards ornamental output and sanctioning the customer to amend/alter the implemented business processes according to their needs [5].

#### II. ERP AND E-COMMERCE

In last few years, e-commerce has befallen an ordinary action/activity for numerous companies/organizations. Several of them lunged/dived into this test/challenge without taking or enchanting into account the enriching/cultural changes that the circumstances occupied, as well as the infrastructure required to carry on with the preliminary development or project. In order to start in on to grow a trade or business in the electronic cruel world/jungle, there are various points that require to be roofed. It is essential to set up a marketing approach, to fashion a catalogue of products, describe the costs and the sale prices, the target market, and shipping and management/handling. Currently, a large amount of enterprises are eager to integrate the development of e-Business.

This fresh and novel technology, which is based on the net, has landed and will reside for a long time. But to establish it up accurately, it is compulsory to depend on the fine organization of the information and the processes. It is a tough test just because of the truth that nearly all companies do not have their individual systems department to grant hold to resolve their fastidious/particular requirements. The entire main departments of the companies are affected also, since there is a definite requirement/need of policies and elucidations/solutions that ought to be updated. Moreover, it is appropriate to have in wits/mind the mission and idea of the enterprise and have an effectual communication system for the tactical points. In order to envisage an accurate progress of

this project, the similar has to be going along with trained staff.

### A. Development Initiation

The primary stride/step to pursue is to opt for an Internet service provider. Whereas it might be possible to utilize a result/solution or your personal development, it would require covering the fundamental needs of a catalogue of products, shopping carts, manners of payment with protected transactions, as well as ordering processing. There are two reasons that will straightforwardly pressurize your efforts; thus, it is extremely vital that you ought to have a consistent hosting supplier and dependable means of distribution. Once these matters are determined, the position/location of the virtual shop would be the subsequently stair/step to accept in mind, and one of these alternatives would be to go to a definite recommend for the hosting of virtual shops.

#### B. Security Concerns

It is important to acquire into deliberation/consideration the safety/security element within the shop and the transactions. There are two security standards designed particularly for e-commerce: Secure Socket Layer (SSL) and Secure Electronic Transaction (SET). The first one does not permit a third party to decipher the manuscript/text/document, all the way through which it utilizes random keys, with a guarantee/certification and a digital signature that has the particular function to guarantee that only the concerned client will be able to decode the message. Concurrently, SET is a security payment standard based on advanced encryption techniques in order to build up Internet transactions. It toils/works with public and private keys secured by Secure Electronic Transaction, and it is intended to encrypt the transactions to evade imprudent and indiscreet intrusion.

# C. Timing Matter/Subjects

In regards to the required time to launching these applications, there is a massive tender in market. Nevertheless, all the equipment like servers, routers, switches, could be acquired straightforwardly with the manufacturer, or through an Internet Service Provider or Application Service Provider. The ASP has recently turned into crucial for integrating the ecommerce, since they wrap/cover all the Business software together with the sale and renting of equipment, links and web hosting among others. The size of the developing Business is not significant, for it would always require the guidance of a specialist in the area, and relying on the place where it is based, this could mean choosing a more suitable service to employ in that location. The IT executives of general industry with knowledge and accomplishment/implementation of Enterprise Resource Planning are now finding out the fresh decrees/rules of Business, and they are raising needs for their customers due to this aspect. The customers of ERP have enhanced their operations during the confederacy/unification of the production systems and administration with additional information technologies, and are now intensifying these tools to their chain of supply for their users.

#### D. ERP Benefits in E-Commerce

The elucidations/solutions for electronic commerce are stimulated like the beats of the heart of Business policies/strategies. Hence, it is frequent for companies come across for a suitable approach to confidently incorporate their e-commerce engine with their concern transactional applications, but with dozens of Enterprise Resource Planning and Business application systems on the market, it is a devastating/waste of time to incorporate a commerce engine to these systems. The electronic commerce provides the prospect of facing the storage in real time in order to get to users during or through the web. It merges/combines the product information with the multimedia information, and deal with the sales process from the start to the end, taking into consideration the orders and serving the enterprise to get used to its offer to the particular requirements of the personage/individual Business links.

To illustrate the processes that entail/involves the integration of Enterprise Resource Planning systems and electronic commerce, it may possibly be illustrated as the stream/flow of operations that acquire part in the marketing between companies. Primarily, accessibility/availability of products is demonstrated in a catalogue, and the delivering or shipping orders made online are under subjection to the prices defined for the preferred articles. The circumstances/status of the prices predetermined will be for the dissimilar Users. Concurrently, the integrated systems may possibly point out online the accessibility and dates of deliverance of the procure/purchase. The storage of information outcome/resulted from the purchase of products, and payment transactions are accumulated in databases of the trader. They possibly will be discharged and sustained in magnetic media or printed files. It may possibly also subsist or exits as an interactive substitute of information if the companies occupied in the purchasing utilize systems like System Applications and Products R/3.

For example, a company utilizing that system can mark the users that also utilize the similar system with the purpose of registering the online purchase orders. This transaction generates a document automatically in a system and a sale order in the providers system, which decreases the amount of details that both companies ought to enter, and diminish the hazard of wrong detail entry with the chance to decrease the costs of communication. The marketing of products on a hefty/huge scale is also promoted by the integration, In view of the fact that the catalogues of products are accessible in numerous languages. Currencies are seen by the whole world without having to be next to the place of origin of the article, with no additional charge.

Furthermore, the exposure and promotion costs of the products are diminished. E-Business or Electronic Business is the new scheme for boosting up and advancing the effectiveness of the Business. Nearly all customers are geared up to entertain enhanced service as compared to the one they were offered in the earlier period. The professionals affirm that taking an enterprise to the subsequently/next stage of Enterprise Resource Planning (to E-Business) will oblige/need not only the implementation in the confine systems, but also functioning with the links in the chain of

supply which is dealing with the flow via the Internet. A fresh decree is flattering law for manufactures: an integrated chain of supply is the only approach to understand the stipulate of products. The optimization of the operations will positively decrease the costs of processing, administration and transport, and this is what guides to a new bloodthirsty improvement. At last, the orientation of the implantation of these systems ought to be intended for the optimization of the companies' operations, concentrating on the basis to convince the customer needs. The conventional idea of the contemporary enterprise is varying from a group of interior functions to an integration of the relationship with clients and providers. With ERP systems, the companies have the capability to surpass the functional perimeters through the description of their individual Business processes.

On the other hand, the new developments based in e-Business models and electronic commerce has obliged the companies to come across for processes to permit the communication between themselves. The companies have demonstrated a significant curiosity in the alternatives, and this provides viable profits in the administration of the supply chain, the electronic commerce and the automation of the sales force, which has guided to the utilization of e-Business to get to the competitiveness in the market. ERP systems like SAP R/3, People Soft, and J.D. Edwards recommend e-Business solutions exercising tools akin to/like Web site developing, Intranet, and back-office sales.

For this reason, they have chosen software that contains Java, JSP, PHP, ASP, and HTML. In the meticulous/specific case of SAP R/3, it also utilizes tools ITS (Internet Transaction Sever), which corresponds to the link between the SAP R/3 system and the Web. BAPIs (Business Application Programming Interfaces) permit users and third party software vendors to incorporate their components with SAP R/3; -IACs (Internet Application Components) endows with the logical Business design of the web site and RFCs (Remote Function Calls).

The interface series is implanted like libraries, which permits for the communication with further software programs. Those solutions are integrated into the processes of customer service and operations management such as: materials, finances, human resources, distribution and sales. The alliance of different functions may possibly greatly help the manufacturing sectors, services companies, public and financial sectors.

#### III. APPLICATION TOOLS OF ERP

Hefty ERP purveyors/vendors are challenging with their minor counterparts by either buying them out or forming deliberated/tactical coalition with them. A number of consultants within huge firms are concentrating/specializing in different areas. They will examine the process that requires to be reengineered, and once this is completed, they will settle on how the ERP software ought to be utilized. It is essential to understand that there is no such thing as a wonderful/ideal Enterprise Resource Planning tool for any organization. Each and every corporation/company ought to have diverse requirements, and the assessment/decision will be reliant on the senior level managers, particularly those who are

functioning in the Information Technology department. These are that concern inhabitants/peoples who will be accountable for making positive the software is sustained. To comprehend Enterprise Resource Planning, it is foremost imperative to recognize the applications that are allied with it. A number of software's that are brought into play with Enterprise Resource Planning is multi-module. In view of this fact these will give a hand to companies in accurately incorporating their different processes. Nearly all essential areas for ERP applications are HR, Finance/Accounts, Marketing and Manufacturing.

When a retailer/vendor trades an ERP unit/module to a specific company which is associated to finance, it will be competent of merging a number of dissimilar jobs. For example, several modules may possibly pact/deal with graph/chart associated to accounts and balances, whilst it may also possibly be exploited to retain/sustain operating expenses that are coupled to the organization. These expenses may possibly be overhead, products, or order outlays/costs. Perhaps nearly all remarkable things regarding Enterprise Resource Planning tools are that they can be utilized to observe/check the downgrading and gratitude/appreciation of the concern company assets. As far as the example of assets is concern so that can be scrutinized are equipment, stocks and holding of cash or cash holdings. An extra thing that this contrivance/tool can be helpful for the maintenance of receivables and payables. If a company requires information the accounts/financial matters clients/patrons, so they have ERP finance software can be brought into play for this reason as well.

One specific vicinity/area where this specific sort of software is remarkably vital is ABC (activities based costing). ABC is accountable for ruling/finding the factual costs concerned with an exact business strategy, plan, or maneuver/operation.

For instance, Activity based costing may possibly permit a company to befall further prolific/creativity and provide it the aptitude to craft further tactical decisions. Additionally to finance, the ERP software is significantly vital for the HR department. Prior to the introduction of ERP, sustaining the HR (Human Resource) aspect of a company may possibly be challenging. In certain cases, a company would definitely be required to pact/deal with all-embracing/extensive sum of paper. When a novel or fresh/new person was appointed by the company, various numbers of forms had to be filled out. A number of these forms were applications, medicine/drug experiment information, and tax forms. As you can imagine, this paper work would grow as the company hired more employees. As the amount of paper increased, managing it properly became more and more difficult.

The process of human resources was first developed in the late 1970s. The few applications that subsisted were fashioned to sprint/run on an individual mainframe, and it was frequently constructed within the company. Human resources are an extremely significant part of corporations, and a number of companies are utilizing Human Resource tools that are about twenty years old. In the 1990s, a number of companies were coming across for new/innovative approaches to uphold or sustain their Human Resource information. Some companies brought into play a variety of

software tools, and troubles came to pass when these tools were not capable to efficiently correspond/communicate with each other. The preface of Enterprise Resource Planning worked out these problems, because it permits Human Resource tools and process/practice integrated/incorporated into one interconnected/cohesive unit. It allocated Human Resource departments to work/exert faultlessly, and the hefty load/piles of paper that had been present for so long were lastly a thing of the past. The third most vital area of ERP is logistics. Enterprise Resource Planning can significantly perk up the logistics of a company/organization by building production planning further proficient, and in addition controlling/handling the costs concerned with materials and inventory.

This technology is also helpful when it approaches to processing orders, because the process befalls automated, and the status of order is tracked and scrutinized. One more imperative feature/aspect of ERP is the preservation/maintenance of warehouses. The records of goods shifted into warehouses will be documented/recorded, and it will also assist in moving products through the warehouse.

# IV. ENTERPRISE RESOURCE PLANNING & BUSINESS APTITUDE/INTELLEGENCE

The executive/management of the company expansion/development begins with an easy inquisition/inquiry of their partners regarding current status of the company. Except there is an exact retort/answer to illustrate the actual status of the similar, it will also come to an end there. Enterprise Performance Management (EPM) came into view with the point to assist to hit upon or locate the most important answer/retort to that particular question. Business intelligence/aptitude elucidation/solution recommend tailored control panels together with drawings, graphics and dissimilar justifications/explanations that will be constructive or helpful for executive/Manager to supervise the metrics that in fact are very essential. The Key Performance Indicators (KPIs) are main/key performance indicators that will put together true and factual the proactive/practical and predictive/prognostic Business management.

Moreover, it will lend a hand the managers/executives of any level to have undeviating/direct and day by day entrée/access for control. Having the option/possibility to way in the requisite information on a daily basis, all and sundry/everybody is competent to have exceptions, monitor/check propensity/tendencies and make/craft intelligent/sharp decisions. Obviously EPM departs further the lofty/high level metrics, control panels and KPIs. EPM is a multidisciplinary and functional/practical process that will optimize the commercial growth through visibility, collaboration/teamwork and lining linking/among the business units and the functional/practical dependences.

It is not only to solid/concrete objective/goals and strategies/policies with the metrics, the systematic/analytical and the methodology are compulsory to comprehend which of these metrics are vital and how they be supposed to measured. Consequently, the accurate information will for certain attain/reach the right persons, in the acceptable time, and

infuriating/provoking by that a lofty/high positive force and impact.

#### A. Distinctiveness /Characteristics

Nearly all EPM systems carry out/execute in a very comparable/akin way. EPM solutions are built/fashioned over the podium/platform of Business Intelligence (BI), leading or piloting the world, which put forward a prospect on real time of the maturity/growth of the Business, reports and vigilant/alerts through the Web, Moreover the capacity or ability to take the helm/navigate till the detail in a translucent/clear way. The applications corporate/business suite and the structure/formation of the application propose a subterranean/deep analytical content and the possibility/leeway to be acclimatized/adapted to the requirements of a particular organization. This is something obliging or read to lend a hand to grip/handle and improve or perk up the overall show/performance of the organization, from the invention/production/fabrication plan/scheme to the executive and decision making offices.

# B. Bloodthirsty or Competitive Benefits

Enterprise Performance Management is the key/solution for numerous processes. It is particularly planned to spotlight and acquire compensation/benefits of real Business prospects/opportunities from any sort of working unit. In this regard Enterprise Performance Management optimizes the performance/act of overall enterprise, whether it approaches to factory workers/labors or to high executive levels. EPM has all the required tools to investigate and vet or even envisage/predicts, incomes cycles, trading or operating, development of supply chains, vigilantly/cautiously detailed client behavior and several other options from a solitary navigation interface. Enterprise Performance Management is the greatest way to craft fine exploitation of your time by utilizing the contemporary alternatives of the enterprise, through a uniform and supple Business intelligence podium/platform. EPM puts forward numerous choices get used to the particular requirements/needs of the customers. Nearly all of them recommend the leeway/possibility to monitor/check and determine the performance in relation with the finances, sales goals, operations, marketing, supply chain, product administration and client administration. Furthermore, it is an immense/great tool to line up and optimize the technologies as well as the Business processes, schemes/policies and strategies, objectives and resources, Business units and corporate/commercial metric goals.

# C. General Information through the Enterprise

Since it is acknowledged, that EPM is not a new/fresh initiative/scheme that appeared only just. Different Businesses be apt/tend to boost the profits and diminish the expenses/costs to maximize the profitability/prosperity. But currently, this job is befalling further and further intricate/hard than ever. The infrastructure is more multifarious/complex and the volume/size of data has climbed significantly. In an aggressive economy, the risks/threats are advanced than ever. There is an option/choice that is recommended by

medium/average sized clients/customers, that is the possibility or leeway to focus a module EPM that might be utilized at the same time by special departments, hybrids or Business units, individuals' through the entire enterprise. Its functionality from start to the end goes through the routine/automatic assimilation/integration of data which is almost a tricky job to act upon, to the simplified panel control for the final clients. It holds up the tactics of the leaders of Business processes like Balances Scorecard, Economic Value Added (EVA) and Six Sigma.

#### V. ERP BRUNT/IMPACT IN ORGANIZATIONS

Currently, with such prompt/rapid rising and mounting of industries and the call for managing and supervision procedures, measures and resources, it has befall extremely imperative to have a tool which can assist you to bring together or coordinate numerous activities/tasks, and the top one is the only ERP. The advantages/merits of having Enterprise Resource Planning are countless. It offers you the prospect of integrating/incorporating each procedure of your concern business whilst improving or enhancing the excellence of numerous areas concurrently.

These areas consist of operations, human resources, and accounting. Furthermore, ERP facilitates to boost your production levels and to have a control over your costs or expenses more proficiently, and this means that you will be in the position to handle the overall enterprise more competently. An extremely significant ability of the ERP systems is that they augment the accessibility of the information, serving/assisting companies to have information in real time to formulate/make decisions and correct and exact prognostics/predictions regarding the organization.

It is essential to talk about that ERP systems are an incredibly prevailing tool when it come up to processing and systematizing monetary/fiscal data. It perks up/improves the development or progress of the profitable activity or bustle in the diminutive/short and protracted/long term. In the enterprise management module you be able to act upon integral or basic premeditated or tactical planning, maintaining an eye on the every day activities and having effortless and fluent communication with the shareholders. The human resources module permits you to make or take decisions or verdicts and optimize the company's investments and outlays regarding employees. With all of this we can see that an Enterprise Resource Planning system takes visible and clear benefits. You may stumble on or find that implementing/integrating an ERP may possibly be costly, or that only gigantic organizations be capable of get in touch with it. Another essential deliberation to compose is that the implementation/integration of Enterprise Resource Planning acquires time and causes/generates yawning or deep amendments in the way you do business.

But the key thing to memorize is that each enterprise can witness the advantages of the Enterprise Resource Planning systems, even though for the initial era it might only appear like an investment/speculation. The advantages certainly are actually bigger than the costs/expenses, and it is extremely precious one to put in or to invest in an ERP system.

# VI. ERP FOR A COMPETITIVE WORLD

Nowadays we are breathing in a globalized world, where competition and struggle is not missing. This is why it is necessary for managers of the enterprise to build up diverse strategies to assure customer requirements, several of which have befallen tough to see. They are struggling to predict what customers will desire or require, and in this regard they effort to put forward customized products. Companies are finding for software that can be capable of administrating each & every aspect of their business integrally. Many of them have been seeking new/fresh technological tools which can optimize their interior or internal procedures and construct them more efficient and resourceful.

The major outcome of this is the consolidation of the company and the contentment/satisfaction of their customers. Currently Enterprise Resource Planning systems are a basic ingredient for organizations. Companies are required to spot out their requirements in order to recognize which system is able to fit better with their investigation/inquiries. In this regard you will pass up picking software that is too complicated for the regular or usual activities of the concern enterprise. Or you might possibly decide on a very simple and easy system that will not assure your requirements, making you mislay money through countless updates.

probability The of triumph/success when implementing/incorporating Enterprise Resource Planning lay in the capability of the organization to assimilate or integrate and strengthen/combine the functionality of the system. If the enterprise has a defined or distinct structure and the methods/policies/procedures are well defined, they can acquire to steps forward from the selection phase to the operational phase and diminish the threats, escalating or increasing the chances of success. Up to date studies in Israel illustrate that several companies have accomplished significant benefits when implementing Enterprise Resource Planning's, even though being dissimilar between each other.

#### VII. IMPACT AND PROFITS

When directors make their mind to put into action ERP a gigantic change occurs in the operational level/phase of the enterprise. This is in particular correct when compared to the conventional way. Organizations that acquire a full adaptation to the fresh & new system are able to utilize one hundred per cent of the software benefits and applications, providing them a bloodthirsty advantage/benefit over other enterprises. A common dilemma in enterprises that have been growing for many years is that they have most likely obtained other companies, whether they were competitors or not, and these new and novel companies were utilizing a dissimilar software system. In this regard extended enterprises may possibly using minor systems together with the concern ERP, and in many events it may possibly be devised with respect to or according to the company's requirements. In this case incorporation can take time, and though it is possible the results can be very pricey.

The key to making a first-class outlay at this point with no compunctions is to effort as a squad, and this embraces managers, professionals from different enterprises, employees and providers. In a globalized economy success depends on the investments made in technology. The implementation of Enterprise Resource Planning is truly a challenge or defy for many organizations, and their likelihoods for victory are superior if they get a hold to implement it appropriately. ERP providers are dipping their costs nowadays, and they are making their products more reachable to many sectors. They are concentrating their exertions/efforts in making the implementation instantly, and by utilizing the smallest amount of money. Another distress/concern for providers is the wrong idea/plan erroneous generalized implementation/incorporation of ERP is throbbing/painful and never-ending. This is why they are frustrating or trying to show results in a short time period.

Priorities are shifting nowadays regarding ERP. Countless enterprises are commencing new projects to exercise ERP in their sales activities, customer service and commercial planning in its place of utilizing it for back- office functions. For several companies it means a massive attempt/effort to employ their ERP systems for new electronic business applications, whilst others are taking numerous actions in order to utilize a software that is capable of facilitating Customers- vendor relationships. Nearly all customers guess that it was an excellent decision to shift into ERP technology, but it is truly imperative to comprehend that the system as a fundamental/basic software. There are too many modules and additional/bonus functions that can be added to the basic ERP according to your desires/needs, and additional functions are approaching from all over. Another vital area that will doubtless request for additional functions is commercial analysis/scrutiny.

Here you ought to utilize applications that permit you to evaluate benefits/advantages straightforwardly. These sorts of applications require a well designed backbone ERP to make them work, and in this regard it is sure that there are a number of explanations to install an ERP system. Nevertheless, it is extremely recommendable to craft a technology investment in hardware to craft/make it work even superior. Companies ought to work hard with the aim of integration/incorporation for their software with web based applications, for the reason that in this way customer will be capable to make a distinctive configuration of products and planning reparations through web sites. Furthermore, many enterprises utilize ERP systems to bring in commercial analysis software because these two elements can assist managers to have a stable glance at the operations. It can identify if a change/modification on planning is needed/necessary. IT planning specialists recognized that these new processes will generate/engender a giant impact on the staff of the organizations, even though in commercial areas you will probably require to make only some modifications.

The rising craves/desires of customers to acquire more benefits/advantages from Enterprise Resource Planning together with the impracticality of some enterprises to agree to this technology are generating hesitations about the prospective value of the system. Expert's observation regarding this matter that ERP has to be seen as an information backbone, and in that way investments are very convenient/expedient because of the outlay/cost of information, which occasionally come to pass to be invaluable.

# VIII. ERP SUCCESS CASES

- 1). Bak Ambalaj story: When we speak about Bak Amabalaj, we are passing on to a leading Turkish company that manufactures printed and non printed paper bags/luggage bags that are used for: hygiene, food, magnetic tapes and beverage. They also administer enormous manufacture levels, there about fifteen thousand metric tons a year. The exploitation of Enterprise Resource Planning permits them to make high quality products, giving them the chance of rising/growing quick and possibly even leading the market by means of long term.
- 2). Kamco plastics goal: Kamco Plastics, Inc. has been providing facilities regarding engineered solutions for the plastics industrial technical predicament/dilemmas for round about thirty years or more. In 1994 Kamco embarked on to exercise an Enterprise Resource Planning system in order to carry on upgrading/advancing customers/clients, offering business interactions between employees (Staff) and clients/Customers.
- 3). Jada Precission Plastics and updates of ERP: Jada Precission Plastics Inc. uses/utilizes two diverse versions of ERP. The primary version was time-honored/established to assist them in lifting their capability levels, and it did so far. It really helped them make the labor easier to carry on, but they experienced they required more than that. After the attainment of an updated Enterprise Resource Planning, the results/outcomes were truly eye-catching for the entire staff. The new/novel software had been particularly designed for them, whilst the primary one tried to solve Jada's problems through packaged solutions instead of offering custom made functions.
- 4). TISCO (Tata Iron and Steel Company Limited): TISCO made numerous thoughts/deliberations before opt for an ERP because they were attentive that customers/clients are exceptionally demanding in the iron and steel fields. They cautiously scrutinized every individual area within the organization, their needs, their common activities and detected several possibilities of improving/enhancing the quality of their daily tasks. They lastly brought into being an ERP well-matched with their specifications, and they even evaluated/measured how their future operations would carry out if they implemented the chosen/selected system. The implementation process took approximately a year in this case, due to the volume of operations and the major steps to be taken. Nevertheless, there is one thing to memorize, and this is that TISCO never rested throughout learning and adaptation process. That is why they practiced a substantial boost in their profits in a short period of time.

# IX. CONCLUSION

Enterprise Resource Planning has befallen established as the major/key free market-changing option for enterprise management systems in amongst software from colossal/giants such as SAP, Oracle and Microsoft, and from the small software developers in their own niche/places. Until now, only two major substitutes existed for systems that supervise a company's information: install a proprietary ERP

system, complete but frequently overweight, nonflexible, and pricey; or build up a way out internally, modified to needs/requirements but costly/expensive to develop/build, not integrated, and incomplete. With its gratis or free business model, OpenERP combines the advantages/benefits of a complete ERP system with the suppleness of an in-house solution. The open source code, the project's general flexibility/suppleness, and its hundreds of modules let you build/construct a solution from a selection of the modules already available and you can then liberally update it as your needs evolve/progress. The results will be at the top end of what you might anticipate or expect from any ERP system, let alone an Open Source system. The considerable gains in productivity, efficiency and visibility become apparent only a few months after implementation. And you can gain from increased operational quality even if vou reduce your human resource intensity. Because there are fewer repetitive tasks for your staff to do, they can concentrate on higher value-added work. We frequently receive the gratitude of senior management who get better results from their business because they have adopted OpenERP.

# **ACKNOWLEDGMENT**

This research work has been funded by the research chair "Enterprise Resource Planning and Business Process Management" of King Saud University, Saudi Arabia.

# REFERENCES

- Heald, K. and Kelly, J. (1998), AMR Research Predicts ERP Market Will Reach \$72.63 Billion by 2002, AMR Research, Boston, MA.
- [2] Computer World (1998), "Big retail SAP project put on ice", Computer World.
- [3] Chung, S. and Snyder, C. (2000), "ERP adoption: a technological evolution approach", International Journal of Agile Management Systems, Vol. 2 No. 1.
- [4] Sweat, J. (1998), "Enterprise application suites are becoming a focal point of business and technology planning", Information Week.
- [5] Rao, S. (2000), "Enterprise resource planning: business needs and technologies", Industrial Management & Data Systems, Vol. 1000 No. 2.