

# A SYSTEMATIC REVIEW OF ERP IMPLEMENTATION

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## ABSTRACT

*An ERP is an Enterprise Resource Planning framework a product framework that forms foundation wide exchanges on a solitary programming framework and a solitary information base. These multi-utilitarian frameworks are intended to streamline practically every part of how foundations work. Basically, an ERP coordinates institutional information and procedures through one system. Enterprise Resource Planning (ERP) Systems exist to make viability associations however estimation of this is so troublesome. Adequacy is multi idea. Three factors influence authoritative adequacy, for example, characterized easy going, mediating and final product. In this article at the principal, we audit estimation techniques that have a full wellness with these factors. From that point onward, we attempt to utilize this factors and ERPs advantage to study differential effect of these frameworks on adequacy. Also, we research the adequacy estimation techniques that figuring the effects of ERPs on authoritative viability and present the suitable strategies that change better with these frameworks. At the last, we recommend the administration rule for actualizing ERPs.*

**Keyword-**ERP, framework, Recourse planning, Implementation.

## I. INTRODUCTION

The development and rise of the Internet, advancing client requests, weight to animate business prepare, and the need to set up more cooperative associations with key providers and business accomplices are all pushing associations towards ERP arrangement. ERP is a most recent top of the line arrangement, data innovation has loaned to Business applications.

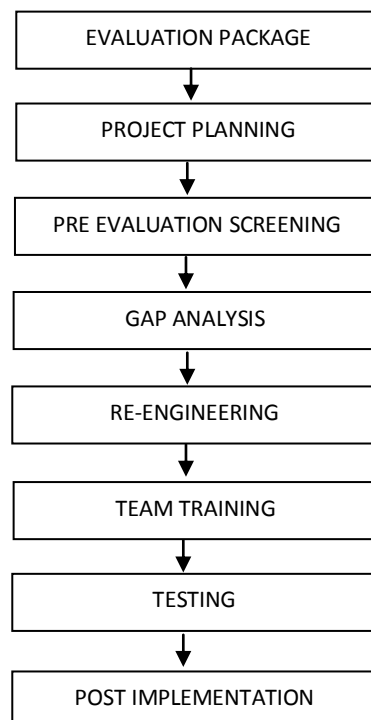
An ERP or undertaking framework is characterized by Thomas Davenport as an extensive business programming bundle, intended to bolster and incorporate hierarchical procedures crosswise over practical limits [1]. Conventional remain solitary applications were intended for particular clients, with constrained usefulness, and confined from different applications. Despite what might be expected, ERP is a business device that coordinates every one of the applications required by an association all in all, and interfaces the association to different endeavours in a system shape. It is typically traded off of a few modules as per prerequisite of client.

ERP is a product engineering that encourages the stream of data among the diverse capacities inside an endeavour. Correspondingly, ERP encourages data sharing crosswise over hierarchical units and topographical areas. It empowers leaders to have a venture wide perspective of the data they require in a convenient, solid and steady form. ERP gives the spine to a venture wide data framework. At the centre of this endeavour programming is a focal database which draws information from and nourishes information into secluded

applications that work on a typical processing stage. ERP gives a coordinated and constantly refreshed perspective of centre business forms utilizing basic databases kept up by a database administration framework.

## II. ERP IMPLEMENTATION AND ITS LIFE CYCLE

The ERP framework is mix of incorporates differed authoritative frameworks and encourages mistake free exchanges and generation, in this manner improving the association's productivity. In any case, building up an ERP framework contrasts from conventional framework advancement. ERP frameworks keep running on an assortment of PC equipment and system designs, normally utilizing a database as a data vault. One ERP execution can differ broadly from the following because of the necessity of customer. These distinctions, be that as it may, underscore the adaptability that can make ERP such an effective business device. ERP contains fundamental to maintaining a business, including stock and request administration, bookkeeping, HR, client relationship administration (CRM), and past. At its most fundamental level, ERP programming incorporates these different capacities into one finish framework to streamline procedures and data over the whole association. The focal component of all ERP frameworks is a mutual database that backings numerous capacities utilized by various specialty units and different associations. Practically speaking, this implies workers in various divisions—for instance, bookkeeping and deals—can depend on a similar data for their particular needs. ERP Life cycle make sense of various stages in its usage. Pre-Evaluation is a basic leadership prepare for picking immaculate bundles and merchants. The choice depends on best bundle accessibility by disposing of inadmissible bundles. Bundle choice depends on different parameters, as indicated by necessities that are tried and checked for co-appointment with different offices that prompt achievement and disappointment of venture.



**Fig. 1 Phases of ERP Implementation**

Additionally outlines and assets are distinguished for venture arranging. Whole examination is the most vital stage which tells where really organization stands and what it needs to accomplish. Re-designing is an inverse procedure that begins from end to begin so as to make alterations and robotize existing frameworks. Group preparing is a procedure of offering preparing to organization's own worker in order to actualize and run it a short time later. Testing is done on set of experiments keeping in mind the end goal to check weaker focuses before going live. Post Implementation is process which prompts support after genuine working begins. To put it plainly, executing ERP can change the way an association conducts business.

### **III. CHARACTERISTICS OF ERP**

- It's integrated software which makes use of Information Technology to the fullest in order to access the data in real time by various possible manners.
- It makes use of central database.
- It facilitates companywideintegrated information system which gives various functional areas like, Manufacturing, Inventory, Accounts, Human Resource, and Purchases etc.
- It is able to perform core business activities that increase customer satisfaction.
- It provides proper information flow within different departments.
- ERP bridges the gap between business partners allowing on-going collaboration.
- It is a way for better project management.
- It includes latest technologies like, Electronic Fund Transfer (EFT), Electronic Data Interchange (EDI), Internet, Intranet, Video conferencing, E-Commerce etc.
- It provides an opportunity to improve and refine business process.
- It provides various business intelligence tools like Decision Support Systems (DSS), Executive Information System (EIS), Reporting, Data Mining and Early Warning Systems (Robots) for enabling people to make better decisions and thus improve their business processes.
- It helps to plan future activities.

### **4. SUCCESS FACTORS OF ERP:**

- ERP availability to customers makes it easier for them to access products and services delivered by company.
- It reduces response time for fulfilling customer's demands.
- Clear comprehension of key objectives.
- Duty by top administration.
- Great venture administration.
- Authoritative change administration.
- An incredible usage group.
- Information precision.
- Broad instruction and preparing.
- Cantered execution measures.

- Its flexible nature which easily adapt changing market.
- It helps in Decision Making process.

#### **V. ADVANTAGES**

- It automates the manual process of organization and makes it available to every employee which reduces the chances to fetch wrong input.
- ERP gives an accurate anticipation of inventory available which leads to efficiency and ultimately profit of organization.
- It's the integration of various functional units that are required by an organization which ensures departmental communication, productivity and efficiency.
- It eradicates the problem of coordinating changes occurring at various levels in different departments.
- It provides reliable, consistent and timely information.
- It is capable to share information at different geographical areas.
- It provides error free transaction and production that enhance efficiency of organization.

#### **VI. CONCLUSION**

Growing new ERP frameworks is extremely perplexing procedure. This paper looks at the writing on ERPs and found that, in spite of the fact that the quantity of studies here is expanding, inquire about on employment and business-related ERP is significantly under-spoken to. This finding suggests that there is a need to build up a more broad arrangement for ERP investigate, particularly:

- (1) Studies that give an unmistakable presentation or review of how ERPs impact both occupations and employees in an association and the reactions of specialists to this huge sort of innovation
- (2) Studies that investigate all potential outcomes in looking to clarify the explanations behind the achievement of RP at one association and its disappointment at another
- (3) Studies that consider work noteworthiness and specialists in an association as the primary merging of their examination These sorts of studies will attract thoughtfulness regarding the significance of ERP frameworks and to the re-building of work administration after an ERP is utilized. They will likewise give further understanding into the different components required in ERP framework usage and give more prominent learning of how it influences specialist and authoritative execution.

ERP frameworks are by and large considered as huge frameworks with exchange preparing and information structure capacities that advance intra-hierarchical correspondence. ERP frameworks are esteemed to be a basic empowering agent for continuous data sharing to adjust business choices and to build deceivability to exchanges crosswise over inward capacities is the biggest innovative speculation for Fortune 500 organizations. Such frameworks are likewise instrumental in setting up adjusted strategic and key execution measurements frameworks that drive enhanced financial results

#### **REFERENCES:**

- [1] "An Easy Introduction to ERP Systems" Akhil Kumar, pp. 1-12.
- [2] Al-Mashari, M., Mudimigh, A., Zairi, M. (2003), "Enterprise resource planning: a taxonomy of critical factors", European Journal of Operational Research, Vol. 146 pp.352-64.

- [3] Allen, D. and T. Kern (2001). Enterprise Resource Planning Implementation: Stories of Power, Politics, and Resistance. IFIP Conference Proceedings: Proceedings of the IFIP TC8/WG8.2 Working Conference on Realigning Research and Practice in Information Systems Development: The Social and Organizational Perspective Idaho.USA.
- [4] Amoako-Gyampah, K. and. Salam. A (2004). An extension of the technology acceptance model in an ERP implementation environment." Information and Management 41(6): 731 – 745.
- [5] Arunthari, S. (2005). Information Technology adoption by companies in Thailand: A study of Enterprise Resources planning System Usage. Information System, Australia, University of Wollongong.Doctorate thesis.
- [6] Basoglu, N., T. Daim and Kerimoglu, O. (2007). Organizational adoption of enterprise resource planning systems: A conceptual framework." Journal of High Technology Management Research 18: 73- 97.
- [7] Beekhuyzen, J., M. Goodwin and Nielsen, J (2001). A Snapshot of ERP Adoption in Australian Universities. Queensland, Australia, Griffith University: 1058-1062.
- [8] Beekhuyzen, J., M. Goodwin and Nielsen, J (2002). ERP in Universities: The Australian explosion Australian Conference on the information systems. Melbourne, Australia
- [9] Botta-Genoulaz, V. and P. Millet (2006). "An investigation into the use of ERP systems in the service sector." International Journal of Production Economics 99(1): 202-221.
- [10] Botta-Genoulaz, V., P. Millet and Grobot, B (2005). "A survey on the recent research literature on ERP systems." Computers in Industry 56(6): 510-522.
- [11] Calisir, F. and F. Calisir (2004). "The relation of interface usability characteristics, perceived usefulness and perceived ease of use to end - user satisfaction with enterprise resource planning systems." Computer in Human Behavior 20(505-515).
- [12] Cornford, J. and N. Pollock (2001). Customising Industry Standard Computer Systems for Universities: ERP Systems and the University as an 'Unique' Organisation Critical Management Studies. England, UMIST.
- [13] Fisher, M. D. (2006). Staff Perceptions of an Enterprise Resource Planning System Implementation: A Case Study of three Australian Universities. Queensland Central Queensland University. PhD.
- [14] Hellens, L., S. Nielsen and Beekhuyzen, J (2005). Qualitative case studies on implementation of enterprise wide systems. Hershey, Idea Group Publishing.
- [15] Hong, K. and Y. Kim (2002). "The critical success factors for ERP implementation: an organizational fit perspective." Information & Management 40(25-40).
- [16] Jones, D. (2008). "How to live with ERP systems and thrive." Retrieved 8 may, 2008 from <http://www.sapmea.asn.au>