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(57) Abstract :
ABSTRACT Industrial ERP System over Blockchain Technology Businesses use Enterprise Resource Planning system and Blockchain technology to manage business data. ERP is a modular software application eliminates single programs and aligns all system under one. Whereas Blockchain allows managing of transactions between multiple parties. Blockchain is a relatively new technology while ERP has been used since around three decades. These two technologies are unique in their functionality and are used together for more clear and secure transaction. This disclosure contains detailed information of ERP and Blockchain technologies, their similarities and advantages.

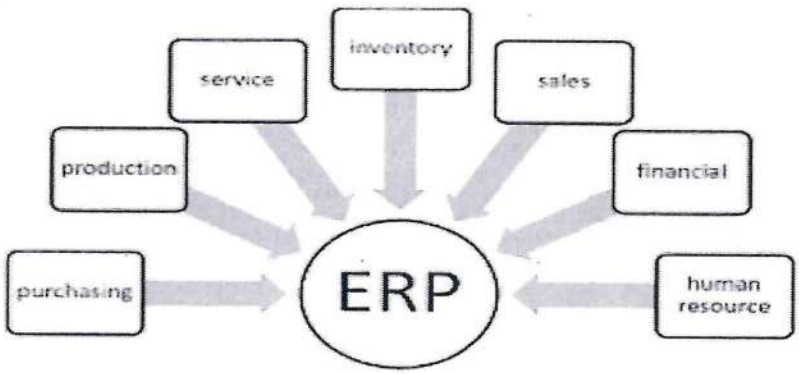

Fig 1. Working of ERP system

No. of Pages : 11 No. of Claims : 5

FORM 2

THE PATENTS ACT 1970

39 OF 1970

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THE PATENT RULES 2003

COMPLETE SPECIFICATION

(SEE SECTIONS 10 & RULE 13)

1. TITLE OF THE INVENTION

INDUSTRIAL ERP SYSTEM OVER BLOCKCHAIN TECHNOLOGY

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3. PREAMBLE TO THE DESCRIPTION

COMPLETE SPECIFICATION

The following specification particularly describes the invention and the manner in which it is to be performed

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INDUSTRIAL ERP SYSTEM OVER BLOCKCHAIN TECHNOLOGY

TECHNICAL FIELD

[0001] The present disclosure relates to a system for managing day-to-day business activities. In particular the present disclosure relates to industrial ERP system over blockchain technology.

BACKGROUND

[0002] Background description includes the comparison between Indsutrial Enterprise Resource Planning (ERP) over Blockchain Technology.

[0003] Every organization, big or small has a lot of data to store. This data often gets mixed/ lost if not segregated properly. As in human body, brain is the controlling centre and the body cannot function without the brain similarly an organization cannot function without a proper controlling system. ERP system and blockchain technology are used in industries to track and manage the data.

[0004] ERP or Enterprise Resource Planning is a software that allows organization in tracking and reporting resources efficiently. Before the system used for managing data in businesses would just focus on material management. These systems were inefficient in managing large data as well as did not prove to be so skilfull as to manage everything in one software. ERP systems have provided these facilitites of plan and automate the system for better results.

[0005] Prior to the ERP, if any department wanted to know the inventory on hand, they had to go to the particular department to get the data. The data in such a way was often mis managed and visibility of data was less. This delayed the decision making and often the efficiency.

[0006] Blockchain technology on other hand is a private and secure network that uses cryptography to keep exchanges secure and provides decentralised database. It uses chain of computers to approve exchanges. Blockchain is now being seen by the business world as an opportunity to capitalize on. A benefit here is that once a record is in a box, it is not possible to alter the stored record.

[0007] As used in the description herein and throughout the claims that follow, the meaning of "a," "an," and "the" includes plural reference unless the context clearly dictates otherwise. Also, as used in the description herein, the meaning of "in" includes "in" and "on" unless the context clearly dictates otherwise.

OBJECTS OF THE INVENTION

[0008] It is an object of the present disclosure to study the data management in business management.

[0009] It is an object of the present disclosure that discuses Enterprise Resource Planning systems.

[0010] It is an object of the present disclosure that discusses Blockchain Technology.

[0011] It is another object of the present disclosure to compare ERP system over Blockchain technology.

SUMMARY

[0012] The present disclosure discloses data management and systems used in industrial sector like ERP and Blockchain system.

[0013] The present disclosure also discloses the detailed description of ERP and Blockchain technology in organizing, planning, maintaining, tracking and utilization of resources in a company, like man, machine and money more efficiently.

[0014] The present disclosure also discusses the comparison between ERP and Blockchain system and advantages of ERP system over Blockchain system.

BRIEF DESCRIPTION OF THE DRAWINGS

[0015] The accompanying drawings are included to provide a further understanding of the present disclosure, and are incorporated in and constitute a part of this specification. The drawings illustrate exemplary embodiments of the present disclosure and, together with the description, serve to explain the analysis of the present disclosure.

[0016] FIG. 1 illustrates an exemplary diagram of working of ERP system.

[0017] FIG. 2 illustrates an exemplary flowchart of working of Blockchain technology.

DETAILED DESCRIPTION

[0018] In the following description, numerous specific details are set forth in order to provide a thorough understanding of embodiments of the present study. It will be apparent to one skilled in the art that embodiments of the present study may be practiced without some of these specific details.

[0019] This disclosure includes the detailed study of business management softwares and systems that are used in industries to manage daily business activities such as project management, risk management, compliance, accounting, procurement and supply chain tasks. They also secure information while providing access to those in need of the information such as in industries like healthcare, education etc.

[0020] ERP system aligns all system under one and removes stand alone programs. ERP streamline and automate processes thus helping big firms like Oracle, Microsoft to function effectively. This system has been implemented in various working sectors and has gradually formed the backbone of their managing operations. They help in operations like plan, predict, budget and reports the results

[0021] An ERP system basically integrates all components like sales, marketing, manufacturing and product development which makes the system more manageable and totally accountable.

[0022] Blockchain technology is used to secure information exchange and provides a digital ledger that everyone in the transaction can have access to. Every transaction in this ledger is authorised by the digital signature of the owner. Blockchain technology was developed in 2008 after the recession to deliver transparency, security and efficiency. This system is now applied in many business worldwide, for example blockchain is used in bitcoin transactions.

[0023] ERP on one hand runs on single modification of data while Blockchain also controls single chain of data shared by many buyers on the web, but is secure as none can alter the data without permission. Blockchain with ERP enhances advantages of ERP system. Blockchain cannot replace ERP system instead works as an additive technology. Unlike one-way integrated system, the relevant information is now available to all participants and can be communicated by a secured system. The transactions are globally traceable, transparent and no longer envolves any intermediaries.

[0024] If the specification states a component or feature "may", "can", "could", or "might" be included or have a characteristic, that particular component or feature is not required to be included or have the characteristic.

[0025] The following is a detailed description of embodiments of the disclosure depicted in the accompanying drawings. The embodiments are in such detail as to clearly communicate the disclosure.

[0026] In an embodiment of the present disclosure, FIG. 1 illustrates a diagram, depicting the working of ERP system.

[0027] In an embodiment of the present disclosure, FIG. 2 illustrates a flowchart, depicting the working of Blockchain technology.

[0028] While the foregoing describes various embodiments of the analysis, other and further embodiments of the invention may be devised without departing from the basic scope thereof. The scope of the invention is determined by the claims that follow. The study is not limited to the described embodiments, versions or examples, which are included to enable a person having ordinary skill in the art to make and use the invention when combined with information and knowledge available to the person having ordinary skill in the art.

ABSTRACT

Industrial ERP System over Blockchain Technology

Businesses use Enterprise Resource Planning system and Blockchain technology to manage business data. ERP is a modular software application eliminates single programs and aligns all system under one. Whereas Blockchain allows managing of transactions between multiple parties. Blockchain is a relatively new technology while ERP has been used since around three decades. These two technologies are uniue in their functionality and are used together for more clear and secure transaction. This disclosure contains detailed information of ERP and Blockchain technologies, their similarities and advantages.

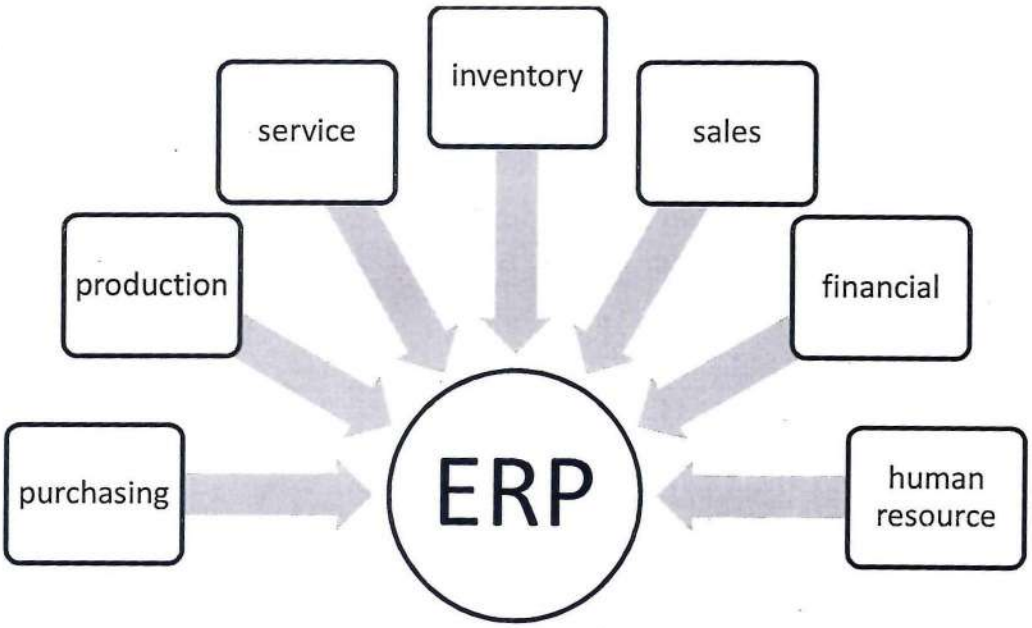

Fig 1. Working of ERP system.

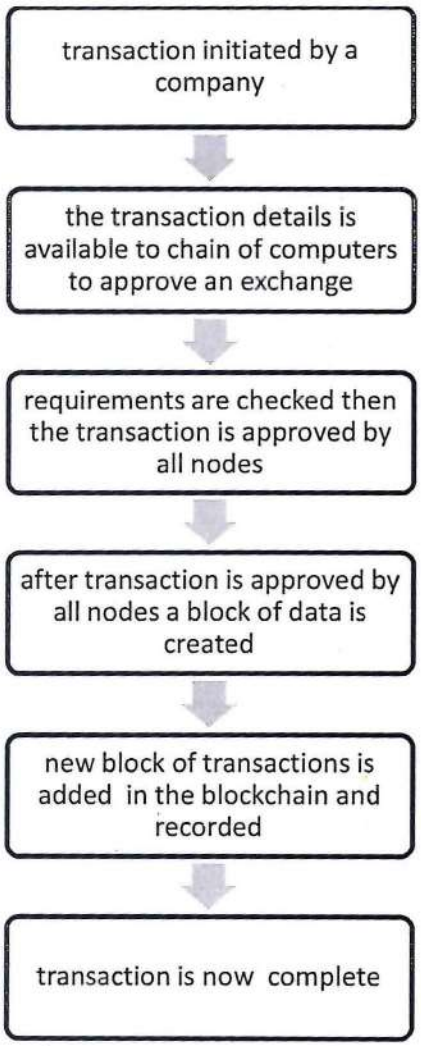

Fig 2. Working of Blockchain technology.

We Claim:

1. System to organize business in industries;

the study describes ERP and Bockchain as the managing sytems used in industries to manage day-to-day operations.

2. The dependency of businesses on such softwares/systems to optimize operations;

they collect, store and report information and give accurate results;

they automates business functions and organize business data.

3. Integration of ERP in Blockchain technology increasing security.

4. These system keeps data handy which helps in quick an efficient decision making process for the business.

5. They help in collection, storage and management of data preventing any leakage or scope of mis-interpretation.

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