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Block chain –The strong contender of Disruptive Technology and its impact on various sectors

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ABSTRACT

The Block chain, primarily developed as a ledger, is assuming the recognized status of an innovative platform. Innovators are finding many uses of the unique features of the framework to devise multiple approaches for solving real world problems of the financial world. The permutation and combination using the Cryptographic keys embedded in this technology has assumed the velocity of a rapidly spreading viral fever and is impacting everyone. Banks, Security agencies, IT companies, Insurance companies, other financial institutions, Judiciary system and Stock exchanges had shown eagerness to innovate and improvise their operations by using the block chain technology. Latest uses are from the fields of stock, option and currency trading. It's going to make easy and full proof systems for Anti money laundering, fraud monitoring, and consortium funding and information security. Sky is the limit, when one tries to forecast the usage of this technology in several fields. The paper discusses about the technology and how it operates by highlighting its strengths and weaknesses. May be it will not give complete business solution but surely it will provide basic process to have a secure and easy information flow which will improve transparency and efficiency. The information and data sharing capabilities inside the network is key capabilities of this system. Confidentiality and consensus in the form of non-discretionary and simultaneous information is its one of the features. Along with its smart contracting feature this technology can lead to efficiency, savings of cost and transparency. So new recipes are being developed using these basic ingredients to be used in other fields.

Key words: Cryptographic keys, Information Security, Data sharing, Transparency, Smart contracting.

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Gap analysis of Smartphone application security

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ABSTRACT

According to the '5th Annual State of Application Security Report, January 2016', of Arxan Technologies, 'The majority of mobile health and finance apps contain critical security vulnerabilities. Mobile health apps approved by regulatory/governing bodies are just as vulnerable as other mobile apps.'[1]

But in 'Android's security report- 2015' it is emphasized that, Google is committed to ensuring that Android is a safe ecosystem for users and developers. Google provides multiple layers of protection, security applications and services, constantly strengthen the core Android platform, and foster an ecosystem rich with security innovation, also regularly measure the effectiveness of these efforts by collecting, analyzing, and sharing data about the security of the Android ecosystem.[2]This shows that there is a gap between provided security and user experienced security. The purpose of this study is to analyze this gap and determine the remedies to minimize this gap to provide user safe and protected mobile ecosystem. The study focuses on exploring the potentially harmful mobile apps, security precautions to be followed by user, security problems faced by users, problems in using different security functions of apps by gathering primary data from the Smartphone users. Considering the majority of user's Smartphone OS, this study is restricted to Android Smartphone users only.

Key words: application security, PHA, threat vector, malware, SafetyNet, VerifyApps

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Measuring Disruptive Innovation with Activity Based Costing

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ABSTRACT

With the changing landscape of global competitive environment, it's at most important for business houses to innovate. India has recently witnessed series of disruptive innovations in Financial Domain from demonetization to introduction of GST. These circumstances demand innovative approach. Be it innovation in production techniques, managing customers, logistics management, new product development or business models.

Disruptive innovations give rise to threats and opportunities. To study the impact of threats or measure the extent of benefits, from innovations, in-depth cost benefit analysis is a must. Thus, we see that accurate determination of costs is the base on which successful ideas can be built on. Traditional costing system helps cost control by identifying, classifying and ascertaining product / service cost. Massive variation in product volume, size, complexity, material required, and machine set up time leads to under / over absorption of indirect cost. Activity Based Costing technique has been developed to overcome these challenges. This paper will help you to understand the concept of Activity Based Costing, identify the differences between Activity Based Costing and the Traditional Costing Methods and benefits derived from Activity Based Costing.

Activity Based costing system is designed considering firm's activities. Once cost of executing the activities is captured, and homogeneous cost pools are formed, selecting appropriate activity measure for each pool does the trick of allocating costs to the respective products.Understanding accurate costs helps management in determining product mix and profit planning decisions. Usage of Activity Based Costing enhances manager's ability in taking befitting decisions leading to successful disruptive innovation.

Keywords: under /over absorption of indirect costs, activities, activity drivers, cost pools, product mix, profit planning,

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Predictive Maintenance and Use of Internet of Things

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ABSTRACT
Maintenance of equipment's and assets is an important part of any manufacturing plant or industry. A well maintained plant not only reduces the cost of production and increases safety but also improves the quality of the product. Keeping this in mind, this paper intends to Study Predictive maintenance and compares it with the traditional approaches such as reactive and calendar based maintenance. The paper discusses how the predictive approach overcomes disadvantages such as replacement costs and unplanned downtime and thus has potential to cause a disruption in the maintenance sector.
Moving forward the paper discusses the use of Internet of Things (IoT) in predictive maintenance. The paper shows how this method is made better than the traditional and manual approach by this technical revolution. Aspects such as skillfulness of labor are taken into consideration while comparing. The use of IoT helps in presenting augmented solutions and also in better plant and system management.
Conclusion - That predictive maintenance helps one improve quality of product at lower costs of production and should be embraced by industry. It also says that the use of IoT helps in effective predictive maintenance and improves the ease of production. The society in general is benefited by implementing these technologies as we get better products at lower costs. While this is true, risks of IoT such as cyber security and privacy must be considered and taken care of.

Key Words: predictive maintenance, manufacturing plant or industry, IoT, technical disruption

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Total Quality Management in Librarianship

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ABSTRACT

The research paper focuses on the Quality Management tools, techniques, theories & their Applications to be implemented in various types of libraries, Technical Information Centers& other Knowledge Centers. 'Total Quality Management' is a continuous process of identifying, measuring and evaluating the quality norms, standards and cost wherein the ultimate goal is the customer's satisfaction. Any Total Quality Management program cannot be complete and gets over in a short span of time; similarly any individual cannot achieve the goals and objectives on their own. It requires thorough involvement of people or personnel at all the levels of the system. Team work brings synergy resulting in multiplying the benefits of Total Quality Management. With the latest innovations in the field of Information and Communication Technology and with the help of Total Quality Management techniques, it becomes the responsibility of the libraries, information centers as well as library professionals to satisfy the vivid information needs of their patrons until their satisfaction.

Keywords: Quality, Total Quality Management, TQM, Librarianship, Library Science