MECHANIZED DEVOPS" MANIFEST APPROCH IN ECOMMERCE

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Abstract- The paper here confers the utility of E-Commerce, a coliseum for ample of online business activities, rightly called as electronic commerce. The paper focuses on Application of agile methodology through dEVOPS in e-commerce. The research depicts the need of agile methodology inculcating DEVOPS as preprocessed agile in devops - “MECHANIZED DEVOPS”. It’s beneficiaries on inculcating for retailer and consumer to earn wings on marketing objective. MECHANIZED DEVOPS is a corpus technology to the upcoming generations of Ecommerce which regulates revenue and time to market as key objectives. Thus, paper throughout presents that agile methodology implementation through “PREPROCESSED AGILE IN DEVOPS” model in E-commerce will personate as a precursor in the near future realm because- ECommerce journey is never over. Hence paper visualizes optimizing the process and increasing the productivity.

Index Terms – Mechanized Devops,

I. INTRODUCTION

Technology is intriguing, just when you think it has reached its peak, it will surprise you by flashing something more amazing than you thought possible. Technology has mesmerized with illumination of one of the trump card i.e. DEVOPS practicing AGILE in ECommerce.

ECommerce is a hosted infrastructure that delivers abridged consumer and retailer relation over the Internet. E-Commerce encompasses distributed data storage, centralized data management and virtualized data services ensuring data security. Module is based on consumption billing. Implementing agile methodology using “MECHANIZED DEVOPS” is a fresh thrust and intended to provide platform to win over mighty benefits through flexibility and cost structure for organizations. It is envisioned that in the near future agile methodology practice by inculcating PREPROCESSED AGILE through “MECHANIZED DEVOPS” in E-commerce will have a remarkable impact on business trends with investment stipulation and feasible challenges for activities in IT sector.

Drift move towards an alloy of unifying preprocessed agile implementation with DEVOPS for upfront investment sectors like E-Commerce.

II. PROBLEM DEFINITION

In a fast and ever-changing environment like e-commerce, the construction of certain project, done based on fluctuating functional requirements, needs to regulate monetary fund flow and ensure speed to market. Addressing these two major concerns is a competitive challenge.

III. HIGH LEVEL SOLUTION

EXSITING MODEL

The implementation of agile methodology through DEVOPS in e-commerce is practiced by INTERDEPENDENCE principle of DEVOPS, i.e. development, operation, quality analysis. The working of DEVOPS is practiced as subset of waterfall, i.e. organized execution of sprint. The requirements are quoted by the business team, based on requirements sprint plan is made and executed. Preliminary stages the development team works on the functionality and produces the module or version as output. The output released is taken as input to the operation and quality analysis team. The validation here is performed based on sprint planned. After the release of sprint changes required are planned based on functionality requirement change done by client.

PROPOSED SYSTEM

The implementation of agile methodology through PREPROCESSED AGILE METHODOLOGY i.e. “MECHANISED DEVOPS” in ecommerce is practiced by CORRELATION principle of DEVOPS. The teams are not only interdependent but inter-related.

The requirements quoted by business team, are taken as input to the development team, processed and functionality is produced as output module. Now when the output is produced, operation and quality analysis and project management teams are mechanized. The teams start working together on the module and adding efforts to validate the release of sprint meets the functionality stated.

The teams don’t wait for each other to complete the respective task, they sit together and verify if any system component needs continues telemetry or monitoring adds them, encounters if any risk factors, and finally a fair check is made on incidents getting created if any. Now the output produced will be not only being a sprint but a POTENTIAL SPRINT
IV. SOLUTION IN DETAIL

Until and unless we understand the drawbacks of existing system we cannot justify the need of proposed system. The challenges in existing system can be stated or jotted in the following manner:

- Adds on developer tasks.
- Reinvestment of revenue for same functionality, i.e. version of release increases.
- Number of Incident assignment increases, indirectly addressing revenue flow.
- Consumption of time
- Extension of development period, with delay in marketing hours for a particular functionality.
- Till the development team releases a product, other teams have idle period.

When we have understood the pitfalls of system, question arises how we address them efficiently in proposed system. We resolve the issues by following MECHANISED DEVOPS as follows,

- We switch from interdependence to correlation principle – to resolve ideal period for the teams.
- Teams react and relate within the sprint – decreases the rework on developers.
If any system require telemetry or continues monitoring are added within the sprints, reducing monetary fund investment on INCIDENTS encountered.

- The risk factor of reinvestment on same functionality is resolved in same sprint by checking for quality analysis on day based involvement.
- Since the changes are made within the sprint – speed to market is assured.

V. BUSINESS BENEFITS

- **Revenue**
  By practicing the proposed system in ecommerce, we observe 2 primary instance monetary benefits
  - Number of releases is decreased; all required changes if witnessed are accommodated in single sprint. Therefore we spend revenue only on controlled release of versions.
  - When we encounter a change we modify in same sprint, thus there will be fewer incidents assignment controlling monetary investments. Ex. For particular certificate, if each incident is around 80 dollars, then after every sprint revenue on incident is added.

- **Quality**
  By practicing the proposed system in ecommerce, all the involved teams are in action, we don’t encounter any idle period for any teams. If any system component requires continuous monitoring or telemetry they are added, in same sprint, ensuring quality of the product.

- **Risk Management**
  In the scenario, where business team is from non-IT sector and states the business-requirements. They will be fluctuating. Hence by practicing the proposed system, the changes are inculcated within the sprint, reducing the risk factor of system.

- **Accelerate to market**
  By practicing the proposed system in ecommerce, for the achievement of functionality, we need not work on sprint – to-sprint bases but work within the sprint which gradually reduces consumption of time. Consequently we procure speed in marketing.

- **Flexibility / Agility**
  In agile practice, not only the change is accepted but it’s even expected.
  By practicing the proposed system, we can change the requirements even before they are delivered. Agility in the process is achieved with less or no investments on multiple versions.
SUMMARY

In this software era, we are hyper focused on customer satisfaction and retention, above profits and marketing. To achieve both factors we have shifted work culture from “SURVIVAL OF FITTEST” TO “SURVIVAL OF SMARTEST”. All sites of ecommerce want the customer friendly requirements to be accomplished. When it is open interactive communication line, the changes grow rapidly. Practicing agile methodology through MECHANIZED DEVOPS in ECOMMERCE sector wins major benefits i.e. revenue management and time to market with customer satisfaction is achieved. Mechanized DEVOPS is implementing agile practice in a preprocessed manner i.e. Agility within Agile to win customer, profit shares and time to market. When all teams work with relativity rather than dependency we term the dynamic process of exchange of view and flow of process as “MECHANISED DEVOPS-IMPLEMENTING PREPROCESSED AGILE” in ECOMMERCE sector where change is perpetual.

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REFERENCES