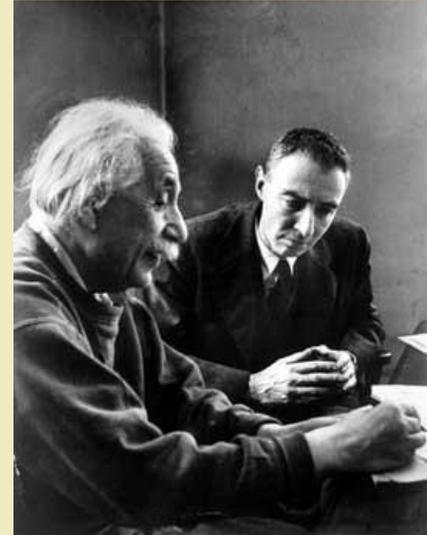


Reducing coding defects in SDLC process

Light House Case study



Industry Type >>>

Information Technology – Software Development

The Client >>>

C_IT_NT

Improvement Tool >>>

Lean Six Sigma



Scenario >>>

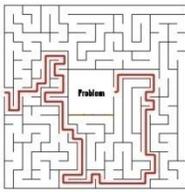
C_IT_NT has been incorporated to cater to the Information Technology needs of C_SE_NS and all its group companies, exclusively. Information Technology has enabled C_SE_NS to build new sources of competitive advantage, bring about innovations in products and services, and facilitate new business opportunities. To retain its primacy in the security market, it needs to continuously improve their Software Development Life Cycle (SDLC) process for faster turnaround time of system requirements.

Business Challenge >>>

Data collected for three projects indicated a total of 528 defects found in UAT (User Acceptance Testing) out of total test cases of 11491. On analysis, 66% of these defects were attributed to coding. Occurrence of coding defects led to rework and also extended the time taken for release of the product. Reducing the coding defects will help the exchange to meet their system requirements and commence their business faster and efficient.

The project aims to reduce coding defects density from 3% to 1% (coding defects against total test cases) in Pass I of UAT Testing Cycle.





The Solution >>>

Code review process checklist and its documentation are introduced as a part of Quality Management System. To increase the programming skills in the domain, training has been imparted to the resources. Appropriate skill set database is made available to HR to allocate appropriate resource for the project. Guidelines for configuration management and testing have been established to make the testing process robust and fix the defects before UAT.

Benefits >>>

Analysis of data after the project implementation reveals that the coding defect has been reduced from 3% to 0.86%. The time taken for the release of the product has been cut down significantly and has benefited by meeting the system requirements on a timely basis. Decrease in coding defects has also lessened the amount of rework. Imparting training and database has resulted in effective utilization of resources.

The intangible benefits include increase in employee morale and a robust process which has improved the reliability.

For further information, please contact >>>

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