Maturity Model for Software Development Lifecyc var dotpo



Our Client's Challenge

As more Agency missions require technology solutions, our Clients are faced with the challenges of a complex, enterprise-scale IT ecosystem. The distribution of work across multiple software development engagements causes inefficiencies born of budget, timing, and capacity constraints as well as increased overhead, reduced synergies, and inconsistent knowledge sharing. Individual projects compete for the same natural resources and focus on their own survival, resulting in individual wins but very slow overall growth in the program.

VFTS Solution

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Given the variety of business models in support of Agency missions, there is no single solution to all software development problems. VETS' mature approach to the Software Development Life Cycle (SDLC) manages complexities with a disciplined, structured set of defined processes, continuous improvements, and integrated technical and functional resources that perform on multiple work streams. Our experiences support an approach that must be right-sized and customized to each Client.

The key to software development is governance, automation, and accountability. The technical tasks, while significant, are manageable in their atomic elements; only when they are compounded will these interactions generate increased risks associated with dependencies, sequencing, and resources.

Our Client's Challenge

VETS' maturity model promotes software code quality through technology and management methodologies. These techniques add value and reduce risk by resolving common software inefficiencies, defects, and ambiguities.

We know that Clients' programs mature along a continuum by adopting and mastering each level. Our model complements CMMI, Lean Six Sigma, and/ or ISO 9001. As maturity builds, programs realize sustained value through development process optimizations, increased productivity, and improved quality assurance. While a maturity model gives a roadmap to building sophisticated software development organization, it is important not to confuse process with progress.

- One size does not fit all. Programs will be at different levels of maturity, or they may be highly mature in management but not technical approaches.
- Each solution must be tailored to the task or the mission. Every program has specific needs and unique requirements that must be identified and addressed through customizations.

Alignment

Understanding & Dedication

Continuous Process Improvements: Applying CMMI and Lean Six Sigma techniques to improve performance. Agile SCRUM Methodology: Providing flexibility and responsiveness to address evolving requirements.

Credibility

Domain Expertise

Test Automation: Adopting tools that increase integration, regression, and functional testing coverage.

Test Driven Development: Producing concise code that meets requirements using a "test first" methodology

Reliability

Consistent & Dependable

Continuous Integration: Promoting frequent, regular code check-ins drives early issue detection and mitigation

KPI Dashboard: Reporting on key metrics to drive analysis, optimizations, communication, and transparency



The VETS Maturity Model for SDLC



VETS Pledge

The Maturity Model for SDLC can be shaped to address both management and technology methodologies in order to promote benefits for all software development projects, including but not limited to the following:

Management Innovations

- Decreased project costs through automation, optimized processes, and resource management
- Reduced schedule and quality risk through defined project controls and transparent reporting
- Sustained value over the life of the product through addressing and shifting with Agency goals and objectives

Technology Innovations

- Faster defect resolution through early detection, code fixes, and thorough root cause analysis of code defects
- Increased software code quality through proactive continuous integration efforts
- Greater user satisfaction and adoption through the alignment of requirements and design to the mission

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