TATA ELXSI

TATA

APPLICATION LIFECYCLE MANAGEMENT

Collaborative | Streamlined | End-to-End

Trending

With the healthcare value chain becoming more and more integrated and patient-centric, the application providers have ample transformative opportunities to stay relevant in the market and meet the ecosystem requirements.

As per a market report published in 2018, the global healthcare application market was valued at US$ 23.2 billion, combining the revenue of the sale of healthcare applications, licenses, and subscription revenue.

Technology and regulatory changes are at the center of this growth. Specifically, the crucial driver for this growth is the need for the agility, scalability, and flexibility capabilities of the healthcare IT organization to respond to frequent variations in customer needs and business requirements from providers and payers.

To achieve these objectives and stay relevant in the market, businesses need to take a structured approach towards application lifecycle management programs of existing as well as pipeline products. The said approach can decrease the program cost, speed-up release cycles, reduce build time while ensuring that the maximum value is delivered to the stakeholders across the value chain.

Opportunity & Challenges

The biggest challenges for organizations with large portfolios are strategizing, planning, executing, and managing end-to-end lifecycles of their applications in a streamlined manner. Application lifecycle management provides a framework for software development while also helping organizations manage their software over time.

Companies in the healthcare industry often deploy applications customized for their business operations. These businesses need an insight-driven strategy to achieve agility and efficiency in meeting evolving end-user requirements that demand frequent deployments.

Organizations realize the criticality of managing their application portfolio. In order to achieve business growth objectives, IT functions must meticulously plan and implement critical aspects of ALM, right from requirements elicitation and management, to release management, including testing and deploying frequent software releases as opposed to limited releases over the life of the application.

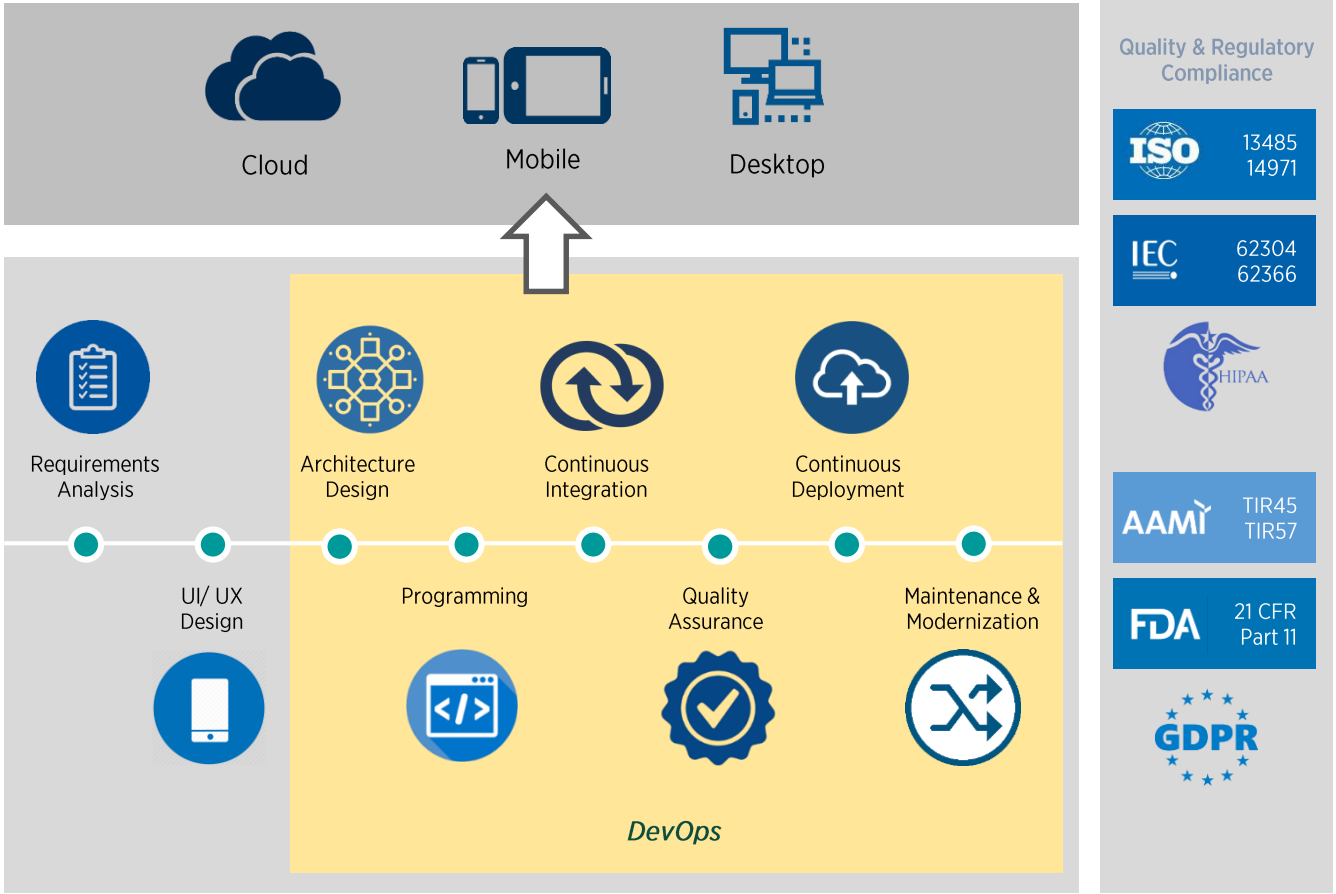
Implementing agile and DevOps development approaches by integrating these disciplines enable teams to collaborate more effectively within the organization.

By bringing these pieces together, ALM leads to faster deployments, improved visibility into your workflow, higher-quality products, and increased developer and user satisfaction.

Benefits for Customers

- Better IT and business goals alignment
- Faster release cycles and time to market
- Higher agility to accept change in business requirements
- Improved quality and compliance
- Real-time insights that facilitates decision making

APPLICATION LIFECYCLE MANAGEMENT



Quality & Regulatory Compliance

ISO 13485 14971

IEC 62304 62366

HIPAA

AAMI TIR45 TIR57

FDA 21 CFR Part 11

GDPR

Project Management Methodology: Agile, Kanban, Iterative, Rapid Application Development

Solution Accelerators

ELEVATE
Application Modernization framework

SymanTEx
Context Aware Conversational Agent

TETHER
Tata Elxsi IoT Platform

AutomaTE
Intelligent Test Automation Framework

TEDAX
Tata Elxsi Big Data platform

Differentiators

- 15+ years of experience in lifecycle management of healthcare applications, medical device software, and software as a medical device (SaMD)
- ISO 13485 certified quality and ISO 14971 compliant risk management system meeting strict requirements of the healthcare industry
- Mature and proven ready-to-use frameworks and accelerators for assessment, implementation, and deployment
- Managed services backed by excellence in DevOps delivery

Cases

Hygiene monitoring and management software maintenance and cloud engineering

- Detailed technical analysis based on available schematics and issue descriptions
- Redesigned application based on new user experience (UX) design
- Continuation defect fixing and verification work for existing application
- Dedicated offshore development team for each 'software application upgrade' and 'software continuation' projects

Telehealth consultation platform

- Detailed technical analysis and research for the required solution
- Development of telehealth platform to virtually connect physicians & patients through video conferencing
- Complete development of patient, physician and admin interfaces
- Iterative development, testing, deployment and maintenance activities

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