

Website Development Lifecycle Standard

Introduction

Website development lifecycle refers to a website development cycle that ensures project consistency, development completeness and procedural adherence for security and conformity.

Purpose

This standard ensures that any State of Oklahoma website follows a standard development lifecycle that conforms to security, accessibility, development and design policies by state personnel and registered vendors.

Definitions

CI/CD – continuous integration/continuous deployment. A method to frequently deliver apps to customers by introducing automation into the stages of app development and sustain site reliability.

Standard

Each site project must be initiated with a project initiation request and have a signed statement of work in order to begin.

Each site's development lifecycle must include the following:

- Discovery session with customer for requirements to properly research and plan an organized website.
- Follow agile development work cycles with customer.
- Accessibility, security, user acceptance testing and design reviews must take place before final deployment.
 - Responses must be resolved before production deployment.
- Application/website registration with service desk and asset management systems.
- A change management ticket to deploy to a production environment/go-live.
- Documented responsibility of each stakeholder for ongoing maintenance of site.

A fully resolved domain name for a state website must be determined prior to go-live deployments and must adhere to state DNS, or domain name system, standards including documentation and handover of DNS ownership to OMES IS.

Site content is the responsibility of the site sponsor and any new content must be completed before site development begins.

Custom development

For projects involving custom code development, code deployments must go through initial and final code reviews with OMES IS before added to any state web platform environment.

Development lifecycle must coincide with the routine deployment schedule of the web modernization team.

Whenever possible, development must extend existing code as opposed to introducing independent functionality. This is in order reduce unnecessary overhead and to help ongoing

support of the state-wide, enterprise-level platform with the emphasis of providing value to all state users.

Before any custom development is initiated, the web modernization team must review functional roadmap.

Deployments to state web platforms must be from OMES IS code repositories and must follow state CI/CD pipeline rule for that specific state platform.

Compliance

This standard shall take effect upon publication and is made pursuant to Title 62 O.S. §§ 34.11.1 and 34.12 and Title 62 O.S. § 35.8. OMES IS may amend and publish the amended standards policies and standards at any time. Compliance is expected with all published policies and standards, and any published amendments thereof. Employees found in violation of this standard may be subject to disciplinary action, up to and including termination.

Rationale

To coordinate and require central approval of state agency information technology purchases and projects to enable the chief information officer to assess the needs and capabilities of state agencies as well as streamline and consolidate systems to ensure that the state delivers essential public services to its citizens in the most efficient manner at the lowest possible cost to taxpayers.

References

- [State of Oklahoma branding guidelines.](#)
- [Web accessibility statutes.](#)

Revision history

This standard is subject to periodic review to ensure relevancy.

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| Approved by: Joe McIntosh, Chief Information Officer | |