Testing Standards

The high-level overview below outlines the Ohio Department of Education's information technology standards for evaluating and validating software application requirements before being deployed into the production environment.

Test Life Cycle

- V-Model testing approach.

Testing Types

Test Type	Automation (Web) Test	Manual Test	Required
Static		X	X
Dynamic Testing			
Sanity or Smoke		X	X
Functional	X		X
Database		X	X
Regression	X		X
Usability		X	X
Browser/OS Compatibility	X	X	X
Web Accessibility		X	X
Load	X		X
User Acceptance		X	X

Test Tools

- Team Foundation Server
- Oracle 11g tools (ODP.NET, SQL Developer)
- MS Visual Studio Team Suite – Tester's Edition
- Fiddler2

Workstation

The operating system on developer PCs is Windows Vista, and the workstations run on a Local Area Network (LAN). Software that will be installed not mentioned above includes:

- Microsoft Office 2007
- Oracle client software
- Browsers: Internet Explorer, Mozilla Firefox, and Apple Safari

Note that testing must include the versions of Internet Explorer, Firefox, and Safari noted in the *ODE .NET Application Development Guide*. Because different versions of a browser cannot usually be installed on a single PC, the use of multiple PCs or virtual machines will likely be required to meet the browser testing requirements.

Documentation

- Templates, process documents, instructions are stored SharePoint and Team Foundation Server such as:
  - Project test plan
  - Test cases
  - Defect tracking and reporting
  - Web Application Verification and Validation Checklist
  - Web Application Testing Checklist
  - User Interface Testing Checklist
  - Graphical User Interface (GUI) Testing Checklist

For more detailed information about the Ohio Department of Education's testing standards, please contact the appropriate project manager.