Test type: Web Performance Test Visual Studio 2010

http://www.pluralsight.com/



In this Module

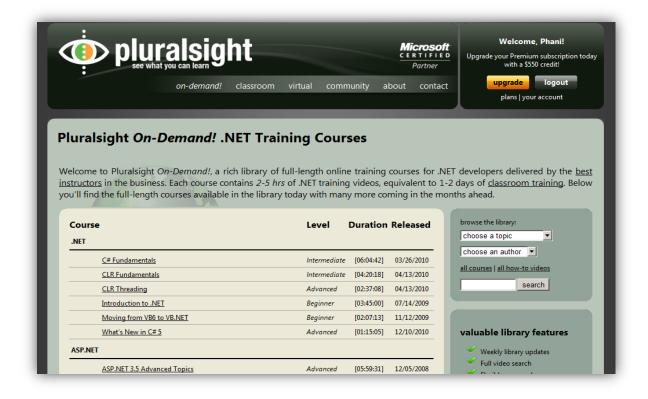
Web Performance Test





Testing Web Applications

- Functional tests that exercise your Web applications
- Data-driven tests
- Performance tests





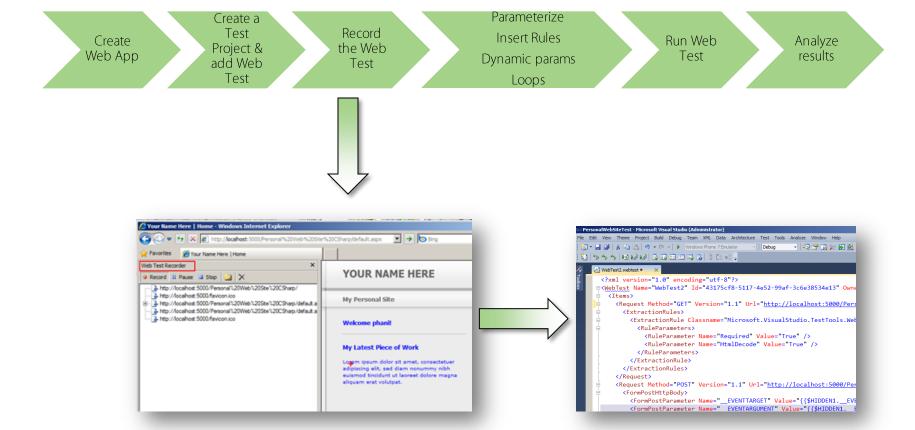
Analyze

results





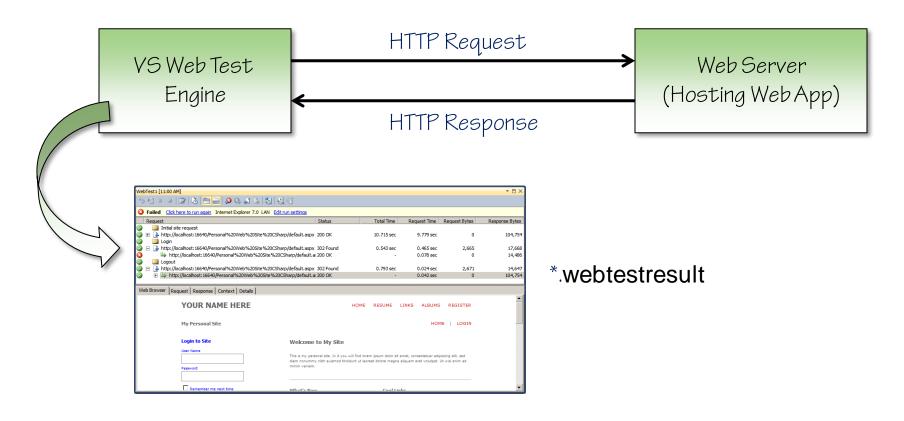
Class...



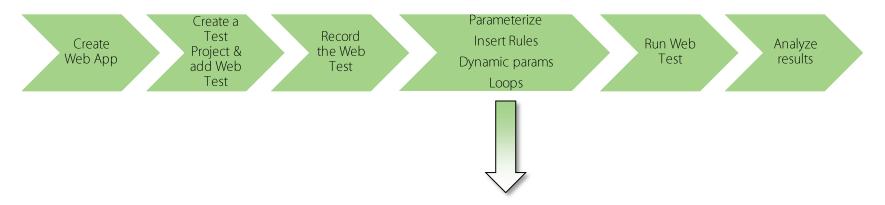


So, What are we talking about!

Web Tests work at HTTP Layer

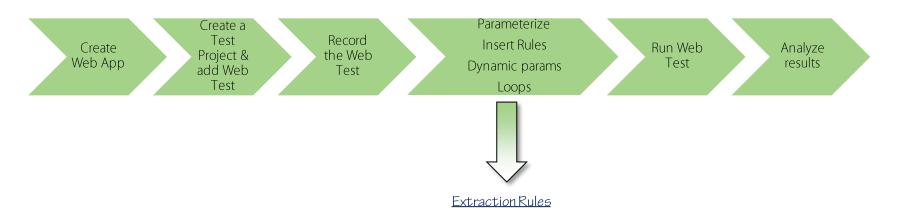






- Parameterization of Web Server
- Development Server
- Staging Server
- Production Server

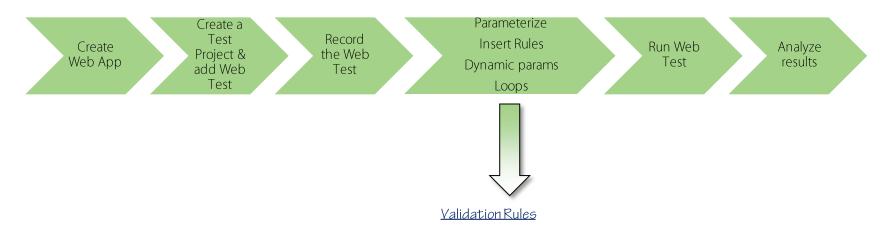




- Extract a small bit of data from a web response
- Extract data from
 - · Form fields
 - Hidden fields
 - Text
 - HTML attributes
 - Headers
 - · Regular expression matches

Microsoft.VisualStudio.TestTools.WebTesting.ExtractionRule

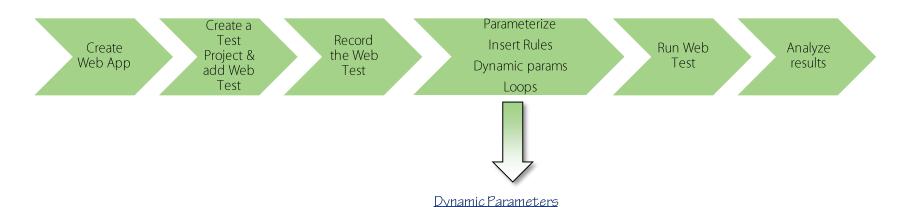




- Extract a small bit of data from a web response
- · Validate that data against a rule
- Verify the existence of:
 - Specific text
 - HTML tags and attributes
 - Form fields and values

Microsoft.VisualStudio.TestTools.WebTesting.ValidationRule





- A parameter whose value is generated every time that a user runs the application
- Dynamic parameter can cause your Web performance test playback to fail



- Cookie
- Hidden Fields/ View State
- Query string or FORM Post params



Data Binding

- Bind WebRequest components to a data source
 - CSV files
 - □ XML
 - Database



Coded Web Tests

- Convert a Web Test Script to code
- Return an enumeration of WebRequests to the test runtime
- Add any logic you wish



Summary

Web Performance Tests

- Functional Testing Aspect
 - Extraction and Validation Rules
 - Dynamic Parameter identification and extraction
 - Data source for Web Tests
 - Coded Web Tests
- Could also be considered as prerequisite for understanding load testing using Visual Studio

