Web Application Development with Wicket

Course Summary

Description

“Web Application Development with Wicket" is an introductory course designed to allow developers to quickly get up to speed on Wicket. The course covers: the architecture of Wicket, component based web development, the Wicket way of performing common web development tasks, internationalization, validation, error handling, and the core Wicket components. By the end of the course developers we will be able to successfully build web applications with Wicket.

Objectives

At the end of this course, students will be able to:

- Explain the difference between the Wicket way and traditional web development
- Explain how Wicket works
- Create web projects that use Wicket
- Create Wicket web application
- Create Wicket pages
- Create forms with Wicket
- Perform validation with Wicket
- Write Wicket components
- Use the core Wicket components
- Support internationalization with Wicket
- Wicket design patterns / best practices
- Wizards with Wicket
- Integrate Wicket with Spring
- Integrate Wicket with Databases (using Hibernate and other data access technologies)

Topics

- Wicket Overview
- Core Wicket Components
- Validation
- Internationalization
- Wicket Page/Site Navigation
- Wicket Page Layouts
- Using Wicket with Databases
- Wicket Integration with Spring
- Integrated Case Study

Audience

This course is designed for developers and architects who are looking to harness the power of Wicket for their projects.

Prerequisites

Students should have experience with Java and Web development prior to attending this course.

Duration

Three days

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Course Outline

I. Wicket Overview
- A. Wicket Hello World
- B. Component vs. Action based web development
- C. Setting up a Wicket project
- D. The Wicket component tree

II. Wicket Form Processing
- A. Creating a form with Wicket
- B. Wicket Models and how they work
- C. How Wicket form processing works
- D. Compound Property Models
- E. Displaying error messages

III. Core Wicket Components
- A. Core input component
- B. Core output components
- C. Tables
- D. Panels

IV. Validation
- A. How Wicket validation works
- B. Wicket standard field validators
- C. Customizing validation error messages
- D. Cross field validation
- E. Creating custom Wicket validators

V. Internationalization
- A. Wicket internationalization architecture
- B. How to internationalize Wicket applications
- C. Internationalization best practices

VI. Wicket Page/Site Navigation
- A. Navigating between Wicket pages
- B. Sessions the Wicket way
- C. The Wicket page map
- D. The browser forward and backward buttons
- E. The browser refresh button
- F. Menus and site navigation best practices

VII. Wicket Page Layouts
- A. Creating reusable page layouts
- B. Wicket page inheritance
- C. Wicket Border Component
- D. More on Wicket Panels
- E. Page Layout best practices

VIII. Using Wicket with Databases
- A. Wicket Loadable Detachable Model
- B. Creating pageable result sets
- C. Integrating Wicket and Hibernate
- D. Wicket & Hibernate Best practices

IX. Wicket Integration with Spring
- A. Wicket Spring integration options
- B. Creating Wicket pages with Spring
- C. Resolving page serialization issues
- D. Using the Wicket spring annotations for dependency injection

X. Building Wizards with Wicket
- A. Problems with web based wizards
- B. Page Based Wicket Wizards
- C. Panel Based Wicket Wizards
- D. Wicket Extensions Based Wizards
- E. Wizard best practices

XI. Integrated Case Study
- A. Integrated Case study application to tie together all the key concepts learned in the course
- B. Course Summary
- C. Course Q & A

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