

Java Content Repository (JCR) (3 Days)

Custom Training Institute

9085 Coyote Springs Road
Prescott Valley, AZ 86315
(928) 772-3811
FAX (928) 441-6444

Java Content Repository (JCR) (CTI 329)

The Java Content Repository, or JCR, is a Java-based Application Programming Interface (API) that provides a standard access to a content repository for storing and retrieving text and binary information (images, word processor documents, PDF files). Students will learn how to use the JCR to store, query and retrieve information against independent content repositories

Prerequisites: One year of prior programming experience with Java. Knowledge of XML.

Minimum hardware requirements: PC or Mac at 1 Ghz with 2 GB RAM and 20 GB free hard disk space before installation. Internet access. Computers should be networked.

Software requirements: Current release of Windows XP or Vista; Mac OS X; or Linux. Java 2 Software Development Kit (JDK) 5.0 or later. JCR jar files (downloadable from <http://www.jcr.org>.) Eclipse software development environment (downloadable from <http://www.eclipse.org>.)

Microsoft PowerPoint and Internet access installed at instructor's workstation for presentation purposes.

Module 1: Overview

What is a Content Repository?
What Kinds of Information Reside in a Content Repository?
Isn't a Content Repository Just a Database?
Getting Information Into and Out of a Content Repository
Advantages of Using a Content Repository

Module 2: Setting Up a Content Repository

Obtaining a Content Repository
Configuring a Content Repository
Compiling a Content Repository
Installing a Content Repository
Lab: Downloading, Compiling and Initial Configuration of a Content Repository

Module 3: Building Content Repository Backend

Encapsulating Data Access Object (DAO) Layer
Encapsulating Data Transfer Object (DTO) Layer
Transporting Information Between Database Layer and Web Layer
Lab: Implementing DAO and DTO Layers

Module 4: Connecting to Content Repository

Creating Data Connection
Working with Data Nodes
Adding, Deleting and Modifying Data Nodes
Lab: Adding Information Using JCR

Module 5: Searching for Information in the Content Repository

Querying with XPath
Querying with SQL
Handling Binary Content
Lab: Querying the Content Repository

Module 6: Review and Summary