Hands-On

Groovy on Grails



Course Description

Groovy on Grails Hands-On training course covers data types, control structures, closures, and dynamic object orientation, also for experienced web developers how to use the Grails framework to rapidly create sophisticated web applications, and much more...

This course teaches students how to create web applications using Grails and Groovy and all the basics including closures and collections, MVC (Model View Controller) design with Grails, database access, and the build-test-deploy lifecycle. In addition, the course includes coverage of Grails 3rd party plug-ins, and much more...

Students Will Learn

- Develop model-view-controller web applications using Grails
- · Access relational databases from Grails
- · To work with existing Java classes and libraries
- To build unit and functional tests for web applications
- And much more...

Prerequisites

Experience in the following areas is required

- -Groovy
- -Java EE including servlets, JSPs, and database access

Course Outline

Module I: Groovy Fundamentals

Differences between Groovy and Java Declaring classes Using assertions Groovy Strings Closures Lists and Maps Expando Objects Ranges Metaprogramming Builders

Module II: Grails Project Structure

Overview of a Grails project
Directories for model classes, controllers, and views
Data source configuration
Logging
Command line utilities
IDE integration

Module III: Application Entities

Object-Relational Mapping with GORM
Optional properties
Constraints and validation
Modeling relationships
Performing CRUD operations
Dynamic queries
Connection to Hibernate

Module IV: Scaffolding

Dynamic scaffolding Working with the dynamic operations Static scaffolding Generating controllers Generating views

Module V: Grails Controllers

Setting the default action Accessing request attributes Flash scope Data binding and type conversion Rendering a response Using action interception

Module VI: Groovy Server Pages

Groovy scriptlets
Built-in Grails tags
Dynamic tags
Layouts and templates
Pagination
Creating custom tags

Module VII: Adding Ajax Support

Basics of Ajax Handling events Ajax-supporting tags

Module VIII: Services and Jobs

Transactions Services and dependency injection

Module IX: Java Integration

ORM integration with Hibernate Dependency injection with Spring Working with legacy databases

Delivery Method

Instructor-Led with numerous Hands-On labs and exercises.

Equipment Requirements

(This apply's to our hands-on courses only)

BTS always provides equipment to have a very successful Hands-On course. BTS also encourages all attendees to bring their own equipment to the course. This will provide attendees the opportunity to incorporate their own gear into the labs and gain valuable training using their specific equipment.

Course Length

4 Days