

Price: R2,500.00 excl. VAT
Duration: 1 day
Code: WBSVO

Web Services: A Management Overview

Description

A web service is a software program that makes itself available over the internet for another system to use. Web services use a set of international standards for communication between different systems. This seminar will provide you with an overview of the role that web services can play in your organisation. It will give you an understanding of the functionality available, the various international standards involved, and the requirements to implement web services successfully.

Objectives

After you have attended the Web Services Management Overview seminar, you will be able to:

- Recognise the advantages and disadvantages of implementing web services.
- Be aware of the technologies available and the differences between SOAP and RESTful web services.
- Understand the requirements for implementing web services at your organisation.

Intended Audience

You should attend this Web Services seminar if:

- You are a Java programmer and you need to understand the role and requirements for web services.
- You are a Java architect or project leader and you need to understand the role of web services in your projects.
- You are a technical manager and you want to evaluate the role of web services for your organisation.

Prerequisites

There are no prerequisites for the Web Services Management Overview seminar. A familiarity with the Java language will, however, be of great benefit.

Course Contents

Web Services Overview and Technologies.

- Why use Web Services in enterprise applications.
- SOAP vs REST.
- SOAP web services as service oriented architectures (SOA).
- Web Service architecture, initiatives and specifications.
- Web Service Description Language (WSDL).
- Web Service Interoperability (WS-I).
- Second generation WS-* initiatives.
- RESTful web services as resource oriented architectures (ROA).
- Best practices and choosing the correct web service technology.

SOAP Web Services.

- Exposing SOAP web service endpoints as JSE applications, servlets and EJBs.
- Code first vs contract first approaches to creating Web services.
- SOAP message envelope.
- Java APIs - JAX-RPC, JAX-WS, JAXB.
- Consuming SOAP web services.

RESTful Web services.

- Overview of HTTP features - HTTP methods, headers, query strings, status codes.
- HTTP methods and CRUD systems.
- Designing REST URLs.
- Data representations - XML, JSON, text.
- Implementation with various Java APIs - servlet API, JAX-RS, @WebServiceProvider.
- Consuming REST web services.

****** *The lecturer reserves the right to modify the contents of the course to suit the needs of the delegates.*