



Developing MarkLogic Applications II

Developing MarkLogic Applications II is for developers who want to take their MarkLogic expertise to the next level. This hands-on course delves into the advanced principles and techniques for building and developing applications with MarkLogic Server. The class is designed for experienced MarkLogic professionals who have the required pre-requisite and wish to gain a deeper understanding of the MarkLogic Server.

Course Objectives

- Create a data model with MarkLogic
- Load various content into MarkLogic, including structured and unstructured documents, schemas, MS Office and PDF documents
- Gain a deep understanding of how transactions are processed in MarkLogic
- Create and perform advanced searches by using search APIs and analytics
- Develop applications and utilize the Library Services and REST library
- Perform query tuning to increase efficiency and performance

Class Details

Length: 3 days

Refundable Booking Fee \$300 (USD)

Availability: Classroom, Live Online

Topics Covered

From RDBMS to MarkLogic

- Describe core differences between MarkLogic and an RDBMS
- Map SQL queries to XQuery/xPath
- Use best practices for data modeling

Content Processing Framework (CPF)

- Build and deploy a CPF pipeline

Working with content in multiple languages

- Load documents in different languages
- Develop a search query against multilingual documents

Working with Schemas

- Load a schema into MarkLogic
- Load documents using a schema.
- Use a schema to validate content

Working with Unstructured Documents

- Load and manage large binary files
- Extract metadata from unstructured documents

Working with MS Office and PDF documents

- Use Document filters to extract data
- Use the default conversions pipeline to convert documents

Topics Covered (cont.)

Transactions

- Generate single and multi-statement transactions
- Describe how update transactions and read or write-locks work

Joining XML Documents

- Use map built-in functions to create maps
- Create an xquery statement to join XML documents

Modular Documents

- Choose when to use xinclude and xpointers
- Create and manage modular documents

Managing Versioning

- Explain techniques for versioning content in MarkLogic
- Check-in and Check-out documents

Registered Queries

- Identify when to use a registered query
- Register a query and reuse registered queries

Working with Reverse Queries

- Serialize and deserialize queries
- Enable the Reverse Query Index
- Perform Reverse Queries

Match Making Queries

- Create and use a match making query

Alerting

- Add Alert Actions
- Apply Alert Rules
- Create Alert Triggers

Co-Occurrence and Proximity Searches

- Create value co-occurrence lexicons
- Output the frequency of co-occurrences
- Create proximity queries for search relevance

Geospatial Search

- Create a Geospatial Index
- Integrate geospatial data, maps, and search into an application

Using a Thesaurus and Custom Dictionary

- Add and delete a thesaurus entry
- Load a thesaurus document
- Create, modify, and delete a custom dictionary

Taxonomies and Ontologies

- Explain how taxonomies and ontologies are stored and used in MarkLogic

Entity Enrichment

- Explain the different techniques for entity enrichment
- Write a function call to apply entity tagging

Working with REST Library functions and URL Rewriting

- Load a document using the REST library
- Rewrite code with REST library

Query Tuning

- Identify Query Performance Factors
- Tune a query using the profile function in Query Console
- Create Tracing and Metering Queries

Scalability Considerations

- High availability and sizing considerations
- Describe how transactions work in a cluster
- Apply techniques to avoid large scale transaction locking

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Dates are subject to change.

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