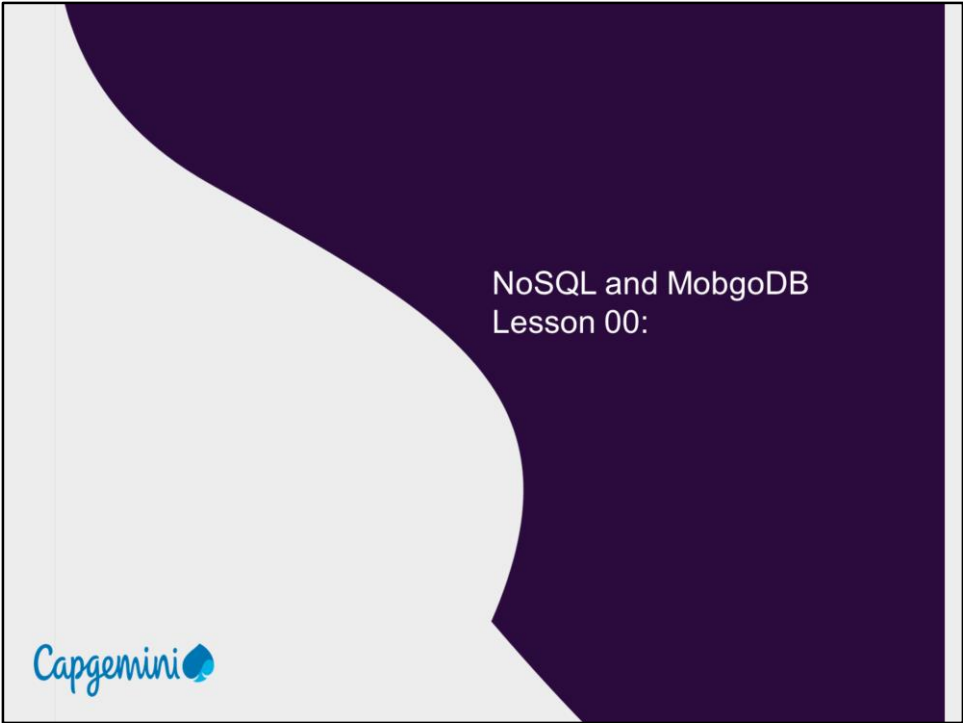


**Instructor
Notes:**



**Instructor
Notes:**

Add instructor notes
here.

Course Goals and Non Goals



Course Goals

- At the end of this program, participants will gain an understanding of:
 - Understanding of NoSQL basics
 - Why NoSQL
 - Different NoSQL DBMSAWS basics
 - Introduction to MongoDB .
 - Installation of MongoDB
 - Query management in MongoDB



Course Non Goals

- This program does not attempt:
 - To demonstrate Continuous Deployment and Continuous Monitoring tools like puppet, CHEF and Nagios

**Instructor
Notes:**

Add instructor notes
here.

Pre-requisites



List the Course Pre-requisites

- Knowledge of JSON
- Few knowledge on RDBMS concept
- Spring Java knowledge

**Instructor
Notes:**

Add instructor notes
here.

Intended Audience

This course is suitable for

- Developers, Test Engineers, Designers, Administrators. new to Java Cloud technology who will work on NoSQL Database.



**Instructor
Notes:**

Add instructor notes
here.



Day Wise Schedule

Day 1

- Lesson 1:Introduction to NoSQL
- Lesson 2: Introduction to MongoDB
- Lesson 3: MongoDB CRUD Documents

Day 2

- Lesson 3: MongoDB CRUD Documents
- Lesson 4:Aggregation

**Instructor
Notes:**

Add instructor notes
here.



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Lesson 1: Introduction to NoSQL

- Evaluation of NoSQL
- Why NoSQL
- Pros and Cons of NoSQL Databases
- NoSQL Vs Relational DB
- Data store types
- Different NoSQL DBMS

**Instructor
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Lesson 2: Introduction to MongoDB

- Why MongoDB
- When not to use
- Documents, Collections and Databases
- Setting up MongoDB
- Starting and Stopping MongoDB server
- Creating and dropping database
- Creating and dropping collections
- DataTypes
- Using MongoDB Shell

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Lesson 3: CRUD Documents

- Inserting and Saving Documents
- Removing Documents
- Updating Documents
- Using Modifiers (\$inc, \$set,\$push,\$pop,...)
- Query Documents-Query Criteria
- Query Documents-Cursors
- Query Documents-Cursors(Limits, Skips, and Sorts)

**Instructor
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Lesson 4: Aggregation

- Projection using Mongo Template in Spring
- The Aggregation Framework
- Pipeline Operations
- Pipeline Operations- \$project

**Instructor
Notes:**

References



Books:

- MongoDB: Definitive Guide, 2nd Edition

Websites:

- <https://university.mongodb.com/courses>
- http://en.wikipedia.org/wiki/Big_data
- <http://docs.mongodb.org/manual/>
- <http://docs.mongodb.org/manual/reference/sql-aggregationcomparison/>
- <http://docs.mongodb.org/manual/core/data-modeling-introduction/>
- <https://university.mongodb.com/> - free online MongoDB courses



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Other Parallel Technology Areas

- HBase
- Cassandra