

Mongo DB (NoSQL Database)

Duration: 40 Hours

Prerequisites

- Basic understanding of any database/ SQL is good

Course Contents

1. Introduction to NoSQL Database

- What in NoSQL?
- Difference between NoSQL and RDBMS
- Benefits of NoSQL

2. Introduction & Overview of MongoDB

- Objectives
- Design Goals.
- The Mongo Shell
- JSON Introduction
- JSON Structure

3. MongoDB Installation

- Installing Tools
- Overview of Blog Project.
- Swig, Express
- Node Packaged Modules (npm)

4. CRUD Operation in MongoDB

- CRUD (Creating, Reading & Updating Data) Mongo Shell
- Query Operators
- Update Operators and a Few Commands

5. Data Modeling

- Schema Design Pattern
- Case Studies & Tradeoffs

6. Indexing and Performance Considerations

- Performance Using Indexes,
- Monitoring And Understanding Performance.
- Performance In Sharded Environments.

7. Aggregation

- Aggregation Framework Goals
- The Use Of The Pipeline
- Comparison With SQL Facilities.

8. MongoDB Replication

- Application Engineering Drivers
- Impact Of Replication And Sharding On Design And Development.

9. Introduction to Mongoose
