Introduction to NoSQL and MongoDB

Introduction to NoSQL

Categories of NoSQL

Introduction to MongoDB

Mongo Installation

In this lecture, we will discuss…

Install MongoDB

Configure MongoDB

Start MongoDB -mongod

Launch MongoDB shell -mongo

Step 1: Download MongoDB (msi)

Step 2: Mongo needs a default data folder (very important step)

Ex: /data/dbor C:\data\db

Note: You can pick any folder but will need to provide the path while starting MongoDB

MongoDB Basics

In this lecture, we will discuss…

Importing sample data

Basics of MongoDB shell

MongoDB collections

IRB shell and MongoDB

Basic MongoDB commands in IRB

mongoimport--dbtest --collection zips --drop --file zips.json

Database, Documents and Collections

Mongo can create database on the fly

•No need to create database beforehand

Documents

•Unit of storing data in a MongoDBdatabase

•JSON document

Collection (similar to tables in DB)

•Unit of storing data in a MongoDBdatabase

•Collection of documents

CRUD

Inserting Documents

Find

Paging

Advanced Find

Replace, Update and Delete

Integrating MongoDB and Rails

Introduction:Integrating MongoDB

Rails Setup

DAO Class infrastructure

CRUD

Scaffolding

MVC Application

MongoLab Setup

Heroku Setup