

COUCH DB

COURSE SYLLABUS

Introduction to NoSQL and Apache CouchDB

Why NoSQL?

Relational DB vs NoSQL?

Type of NoSQL Databases

CAP Theorem and Tunable Consistency

Advantages of NoSQL

Where does CouchDB fit in?

ACID Properties

Getting Started Apache CouchDB

Apache CouchDB Setup

Important Configuration

Writing and Reading Data

Key Concepts (Views, Document Storage etc.)

CouchDB API

Data Modelling

Differences between RDBMS and CouchDB

Keys and values

Indexes

Sorting

Equal keys

Lookup Views

Linked documents

Complex Keys

Grouping

Backup and Restore

Performance Tuning

CouchDB Map and Reduce Functions

Map Functions

Reduce Functions