

<b>Workshop</b>	
Name	Couch DB Standard Content
Duration	2 Days
Objective	This course introduces Couch DB features and applications. It also focuses accessing Couch DB resources using JavaScript and REST.
Participants' Entry Profile	Participants attending this course must have experience on RDBMS principles. Knowledge of basic JavaScript is must.
Training Methodology	The session delivery will be scenario based. For each of the topics in the content implementation and usage scenarios for the Couch DB.

<b>Setup Requirements</b>	
Hardware and Software Requirements	Participant's as well as Trainer's Machine are required to have : Hardware: Any Pentium or above with 2GB RAM. Software: Windows7 OR Above OS CouchDB Version 1.5.0 Curl 7.0 NotePad++
Training Lab Requirements	Whiteboard 6 feet by 4 feet (minimum) Whiteboard markers – Red, Blue, Green, Black Video Projector (1024 X 768 resolutions)

**Course Contents****Day 1**

- **Scenarios for SQL and NO SQL**
  - Understanding Structured and Unstructured Data
  - Need for Unstructured Data
- **Introduction to NO SQL**
  - Features of NO SQL Dbs
  - Principles on No SQL
- **Introduction to CouchDB**
  - Features of CouchDB
  - Components of Couch DB
  - CouchDB Consistency
  - Architecture and Core API
- **CouchDB API Reference**
  - API Basics
  - Server
  - Databases and Documents
- **Interacting with CouchDB**
  - Futon Web GUI Administration features
  - cURL Commands

**Day 2**

- **CouchDB Programming Basics**
  - RESTful APIs
  - JSON
  - Using Predefined JS
- **CouchDB JSON Structure Reference**
  - All Database Documents
  - Document Handling
  - Request and Response Management
  - Error Management
- **CouchDB Development**
  - RESTful Access using JavaScript
  - Using Couch JavaScript Library
- **CouchDB Replication Overview**
  - CouchDB Replication Protocol
  - Replicator Database
  - Maintenance