PouchDB Playbook: Simplify Offline Web Application Storage

GETTING STARTED WITH POUCHDB

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I assume you...

- Know how to build web applications
- Know HTML and CSS
- Are familiar with JavaScript and jQuery

You want to...

- Work with data offline
- Simplify IndexedDB
- Use promises for offline storage

Related Pluralsight Course

Creating Offline-first Mobile Apps with HTML5

Getting Started with Progressive Web Apps

HTML5 Web Storage, IndexedDB and File System

Modules in This Course

Modules

Getting Started with PouchDB

- PouchDB overview

- Create PouchDB database

- Add, update and delete documents

Bulk Operations with PouchDB

- Modify several documents at once

- Count and query documents

Modules

Using Mango Queries in PouchDB

- Create indexes
- Use find() plug-in

Use Map Queries in PouchDB

- Use query() to retrieve documents
- Create design documents

Modules

Use Reduce Queries to Gather Statistics
- Built-in reduce queries
- Count, sum, min, max and average

PouchDB Overview

PouchDB

Open-source JavaScript database

NoSQL database

Similar to CouchDB

Runs completely in browser

PouchDB

Uses IndexedDB or WebSQL

Promises are easier to use than callbacks

Synchronize with CouchDB

PouchDB Terms

Unstructured documents

A collection of JSON objects stored in PouchDB

_id

The field name for each document's primary key

_rev

The field name for each document's unique revision id

PouchDB Terms

Mango queries

Design document

A find() API that uses secondary indexes to query documents

A document which describes the map function to assist with querying

PouchDB Terms

SQL	NoSQL
Table	No equivalent
Row	Document
Column	Field
Primary Key	Primary key(_id)
Index	View

Demo

Getting started with PouchDB

Open/Create a database

Demo

Add a document

Demo

Update a document

Demo

Delete a document

Demo

Compact database

Demo

Destroy database

Summary

PouchDB is a NoSQL database

Great for creating offline web apps

Easy to work with

Basic CRUD samples