NoSQL: What is NoSQL

page 1

Meet the expert: Jordan Hudgens has certifications for Ruby on Rails, Thinkful; Ruby on Rails, Bloc.io; Front End Development, Thinkful; and AngularJS, Thinkful. He is currently vice president of engineering for TRACKR in Midland, Texas and is working on his PhD in Computer Science from Texas Tech. In addition to Ruby, Jordan works with PHP, JavaScript, MySQL, Postgres, CSS3, C, C++, C#, Objective-C, and Python. He also works with the frameworks Rails (Ruby), Zend (PHP), and Django (Python), plus the libraries AngularJS, jQuery, and Backbone.js.

Prerequisites: This course is for users with experience with relational and non-relational databases. The user should also have programming experience with JavaScript. This course was filmed on a MAC but its programming principals apply to development on the PC as well.

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Course description: In this course, we are going to introduce you to the concepts behind the NoSQL ecosystem, including what NoSQL is and isn't, along with a brief overview of some of the most popular NoSQL implementations. Next we are going to discuss the advantages and disadvantages of using a NoSQL database and the benefits of leveraging a schemaless database in your applications. Then we are going to set up the environment we will be using to develop an application. We will cover the various tools being utilized, including Mongo, Express.js, AngularJS, and Node.js among others.

Course outline:

Overview
- Introduction
- NoSQL Overview
- What is NoSQL
- NoSQL Database Environment
- NoSQL is not
- NoSQL Options
- Summary

When to Use NoSQL
- Introduction
- Benefits to using NoSQL DB
- Better Backend Management
- Fast Deployment
- Natural Fit
- Front End Developer Friendly
- Providers are Open Source
- Negatives to Using NoSQL DB
- Learning Curve
- Open Source
- NoSQL vs. SQL
- SQL
- NoSQL
- Summary

When to Use NoSQL (cont.)
- Introduction
- Schemaless Development
- Schemaless Negatives
- Predefined Schemaless
- Categories of NoSQL
- Key Value Stores
- Wide-Column Family Stores
- Document Databases
- Graph Databases
- Scalability
- Relational Databases
- NoSQL Scalability
- Summary

Implementation Setup
- Introduction
- Implementation
- Tools We'll Use
- Tools We'll Use - Others
- Setup Environment
- Install Node.js
- Install Node.js (Cont)
- Install Mongo
- AngularJS
- Webstorm
- Demo: Installing Tools
- Demo: More Tools
- Setup Application
- Data Binding with AngularJS
- Data Binding
- Demo: New Project
- Demo: HTML Body
- Demo: Basic JavaScript
- Summary