

Overview

Week 1

Week 2

Week 3

Week 4

Grades

Discussion Forums

Messages

Course Info

Week 2

Server-side Development with NodeJS, Express and MongoDB

Week 2

Discuss this week's modules here. 1318 threads · Last post a day ago

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Data, Data, Where art Thou Data?



Jogesh K. Muppala

This module looks in detail at data storage with MongoDB, the popular NoSQL database. You will learn first about Express generator for scaffolding an Express application. Then you will learn about MongoDB. You will learn how to Interact with MongoDB from a Node application. Then you will learn the MongoOB oDM to create schemas and models, and interact with MongoDB server.

Learning Objectives

- Demonstrate an understanding of data persistence using a database
 Design persistent data storage based on MongoDB. a NoSQL database
 Develop schemas and models for data storage using Mongoose
 Combine the REST API and the data persistance layer for a full-fledged server implementation

Express Generator

- Reading: Express Generator: Objectives and Outcomes 10 min
- ▶ Video: Express Generator 4 min

- ▶ Video: Exercise (Video): Express Generator 15 min
- Reading: Exercise (Instructions): Express Generator 10 min
- Reading: Express Generator: Additional Resources 10 min

Introduction to MongoDB

- (III) Reading: Introduction to MongoDB: Objectives and Outcomes 10 min
- ▶ Video: Introduction to MongoDB 10 min
- **▶ Video:** Exercise (Video): Introduction to MongoDB 13 min
- Reading: Exercise (Instructions): Introduction to MongoDB 10 min
- Reading: Introduction to MongoDB: Additional Resources 10 min

Node and MongoDB

- Reading: Node and MongoDB: Objectives and Outcomes 10 min
- ▶ Video: Node and MongoDB 2 min
- ▶ Video: Exercise (Video): Node and MongoDB Part 1 17 min
- Reading: Exercise (Instructions): Node and MongoDB Part 1 10 min
- ▶ Video: Exercise (Video): Node and MongoDB Part 2 ^{23 min}
- Reading: Exercise (Instructions): Node and MongoDB Part 2 10 min
- ▶ Video: Callback Hell and Promises 6 min
- ▶ Video: Exercise (Video): Callback Hell and Promises 9 min
- Reading: Exercise (Instructions): Callback Hell and Promises 10 min
- Reading: Node and MongoDB: Additional Resources 10 min

Mongoose ODM

- Reading: Mongoose ODM: Objectives and Outcomes 10 min
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•	Video: Exercise (Video): Mongoose ODM Part 1 15 min
(11)	Reading: Exercise (Instructions): Mongoose ODM Part 1 10 min
•	Video: Exercise (Video): Mongoose ODM Part 2 13 min
(11)	Reading: Exercise (Instructions): Mongoose ODM Part 2 10 min
(11)	Reading: Mongoose ODM: Additional Resources 10 min
RES	ST API with Express, MongoDB and Mongoose
(11)	Reading: REST API with Express, MongoDB and Mongoose: Objectives and Outcomes 10 min
•	Video: REST API with Express, MongoDB and Mongoose 7 min
•	Video: Exercise (Video): REST API with Express, MongoDB and Mongoose Part 1 37 min
(11)	Reading: Exercise (Instructions): REST API with Express, MongoDB and Mongoose Part 1 10 min
•	Video: Exercise (Video): REST API with Express, MongoDB and Mongoose Part 2 33 min
(11)	Reading: Exercise (Instructions): REST API with Express, MongoDB and Mongoose Part 2 10 min
(11)	Reading: REST API with Express, MongoDB and Mongoose: Additional Resources 10 min
Ass	ignment 2: MongoDB
•	Video: Assignment 2 Requirements (Video): MongoDB: Requirements 3 min
(2)	Peer-graded Assignment: Assignment 2: MongoDB 1h Due Sep 20, 1:59 AM CDT
(P)	Review Your Peers: Assignment 2: MongoDB
(11)	Reading: Assignment 2: MongoDB: Additional Resources 10 min
⊛ (Optional Honors Content ⑦
Arc	hitecture Design and Software Structure
(11)	Reading: Architecture Design and Software Structure: Objectives and Outcomes 10 min
(II)	Reading: Architecture Design and Software Structure Report 10 min

