

Overview

Week 1

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Course Info

Week 1

Server-side Development with NodeJS, Express and MongoDB

Week 1

Discuss this week's modules here.

1446 threads · Last post 19 hours ago

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Introduction to Server-side Development



Jogesh K. Muppala

In this module you will be introduced to Node, Node modules and the Node HTTP server. You will learn about the Express framework and how to set up a REST API using Express

Learning Objectives

- · Describe the use of Node for server-side development
- Create a Node application
 Demonstrate the use of Node modules in developing a Node application
- Develop a simple REST API server using the Express framework

Welcome to Server-Side Development with NodeJS, Express and MongoDB

▶ Video: Welcome to Server-Side Development with NodeJS, Express and MongoDB 10 min

▶ Video: How to Use the Learning Resources 9 min

@ Reading: Welcome to Server-Side Development with NodeJS, Express and MongoDB: Additional Resources 10 min

Full-Stack Web Development: The Big Picture

- Reading: Full Stack Web Development: The Big Picture: Objectives and Outcomes 10 min
- ▶ Video: What is Full-Stack Web Development? 5 min
- Reading: Full Stack Web Development: Additional Resources 10 min

Setting up your Development Environment: Git (Optional)

- @ Reading: Setting up Your Development Environment: Git: Objectives and Outcomes 10 min
- Reading: Setting up your Development Environment 10 min
- ▶ Video: Exercise (Video): Setting up Git 6 min
- Reading: Exercise (Instructions): Setting up Git 10 min
- Video: Exercise (Video): Basic Git Commands 18 min
- Reading: Exercise (Instructions): Basic Git Commands 10 min

Reading: Exercise (Instructions): Online Git Repositories 10 min

- (F) Video: Exercise (Video): Online Git Repositories 12 min
- (III) Reading: Setting up your Development Environment: Git: Additional Resources 10 min

Introduction to Node.js and NPM

- Reading: Introduction to Node.js and NPM: Objectives and Outcomes 10 min
- ▶ Video: Node.js and NPM 3 min
- ▶ Video: Exercise (Video): Setting up Node.js and NPM 1 min
- Reading: Exercise (Instructions): Setting up Node.js and NPM 10 min
- Reading: Introduction to Node.js and NPM: Additional Resources 10 min

Node Modules

(11)	Reading: Node Modules: Objectives and Outcomes 10 min
•	Video: Node Modules 10 min
•	Video: Exercise (Video): Understanding Node Modules 17 min
(11)	Reading: Exercise (Instructions): Understanding Node Modules 10 min
•	Video: Node Modules: Callbacks and Error Handling 9 min
•	Video: Exercise (Video):Node Modules: Callbacks and Error Handling 21 min
(11)	Reading: Exercise (Instructions):Node Modules: Callbacks and Error Handling 10 min
(11)	Reading: Node Modules: Additional Resources 10 min
Node and HTTP	
(11)	Reading: Node and HTTP: Objectives and Outcomes 10 min
•	Video: Networking Essentials 16 min
•	Video: Node and the HTTP Module 6 min
•	Video: Exercise (Video): Node and the HTTP Module 32 min
(11)	Reading: Exercise (Instructions): Node and the HTTP Module 10 min
(11)	Reading: Node and HTTP: Additional Resources 10 min
Introduction to Express	
(11)	Reading: Introduction to Express: Objectives and Outcomes 10 min
•	Video: Introduction to Express 13 min
•	Video: Exercise (Video): Introduction to Express 21 min
(11)	Reading: Exercise (Instructions): Introduction to Express 10 min
•	Video: Brief Representational State Transfer (REST) 16 min
•	Video: Express Router 8 min
•	Video: Exercise (Video): Express Router 40 min
(11)	Reading: Exercise (Instructions): Express Router 10 min
(11)	Reading: Introduction to Express: Additional Resources 10 min
Assignment 1	
•	Video: Assignment 1 Requirements (Video): Node Modules, Express and REST API 5 min
(2)	Peer-graded Assignment: Assignment 1: Node Modules, Express and REST API 1h Due Sep 13, 1:59 AM CDT
®	Review Your Peers: Assignment 1: Node Modules, Express and REST API Due Sep 16, 1:59 AM CDT
(11)	Reading: Assignment 1: Node Modules, Express and REST API: Additional Resources 10 min
Optional Honors Content	
Ideation	
	ation
(11)	Reading: Ideation: Objectives and Outcomes 10 min
(1)	Reading: Ideation: Objectives and Outcomes 10 min
(11)	Reading: Ideation: Objectives and Outcomes 10 min
(11)	Reading: Ideation: Objectives and Outcomes 10 min Reading: Ideation Report Template 10 min