

# NodeJS - The Complete Guide

(incl. Deno.js, REST APIs, GraphQL)

✓ = Video watched

Yellow = Item with work-along exercise also done by me

Note: Items not in Yellow are videos to watch with no work-along exercises

## Week 1

### 01-Getting Started

1. Introduction (1:55)	✓
2. What is Node.js? (4:42)	✓
3. Installing Node.js and Creating our First App (7:41)	✓
4. Join our Online Learning Community	✓
5. Understanding the Role & Usage of Node.js (7:32)	✓
6. Course Outline (7:31)	✓
7. How To Get The Most Out Of The Course (3:54)	✓
8. Working with the REPL vs Using Files (2:58)	✓
9. Using the Attached Source Code	✓

### 02-Optional: JavaScript - A Quick Refresher

1. Module Introduction (1:36)	✓
2. JavaScript in a Nutshell (2:35)	✓
3. Refreshing the Core Syntax (4:34)	✓
4. let & const (2:27)	✓
5. Understanding Arrow Functions (5:17)	✓
6. Working with Objects, Properties & Methods (3:19)	✓
7. Arrays & Array Methods (4:16)	✓
8. Arrays, Objects & Reference Types (2:13)	✓
9. Understanding Spread & Rest Operators (6:40)	✓
10. Destructuring (5:37)	✓
11. Async Code & Promises (10:28)	✓

12. Template Literals	✓
13. Wrap Up (0:50)	✓
14. Useful Resources & Links	✓

## 03-Understanding the Basics

1. Module Introduction (1:50)	✓
2. How The Web Works (4:11)	✓
3. Creating a Node Server (13:22)	✓
4. The Node Lifecycle & Event Loop (4:53)	✓
5. Understanding Requests (3:10)	✓
6. Sending Responses (5:37)	✓
7. Controlling the Node.js Process	✓
8. Routing Requests (5:48)	✓
9. Redirecting Requests (4:10)	✓
10. Parsing Request Bodies (11:12)	✓
11. Understanding Event Driven Code Execution (6:00)	✓
12. Blocking and Non-Blocking Code (5:04)	✓
13. Node.js - Looking Behind the Scenes (12:01)	✓
14. Using the Node Modules System (10:05)	✓
15. Wrap Up (5:15)	✓
16. Assignment - Basics (Problem) (2:32)	✓
17. Assignment - Basics (Solution) (11:32)	✓
18. Useful Resources & Links	✓

## 04-Improved Development Workflow and Debugging

1. Module Introduction (0:40)	✓
2. Understanding NPM Scripts (7:03)	✓
3. Installing 3rd Party Packages (8:20)	✓
4. Global Features vs Core Modules vs Third-Party Modules	✓
5. Using Nodemon for Autorestarts (1:36)	✓
6. Global & Local npmPackages	✓
7. Understanding different Error Types (1:49)	✓
8. Finding & Fixing Syntax Errors (3:10)	✓
9. Dealing with Runtime Errors (2:47)	✓

10. Logical Errors (6:32)	✓
11. Using the Debugger (3:10)	✓
12. Restarting the Debugger Automatically After Editing our App (6:21)	✓
13. Changing Variables in the Debug Console (1:26)	✓
14. Wrap Up (3:14)	✓
15. Useful Resources & Links	✓

## Week 2

### 05-Working with Express.js

1. Module Introduction (2:15)	✓
2. What is Express.js? (3:43)	✓
3. Installing Express.js (3:47)	✓
4. Adding Middleware (5:13)	✓
5. How Middleware Works (2:58)	✓
6. Express.js - Looking Behind the Scenes (3:42)	✓
7. Handling Different Routes (4:59)	✓
8. Assignment - Express.js (Problem) (1:52)	✓
9. Assignment - Express.js (Solution) (6:21)	✓
10. Parsing Incoming Requests (8:00)	✓
11. Limiting Middleware Execution to POST Requests (1:48)	✓
12. Using Express Router (8:04)	✓
13. Adding a 404 Error Page (2:30)	✓
14. Filtering Paths (3:38)	✓
15. Creating HTML Pages (5:09)	✓
16. Serving HTML Pages (7:19)	✓
17. Returning a 404 Page (2:00)	✓
18. Using a Helper Function for Navigation (3:37)	✓

19. Styling our Pages (13:58)	✓
20. Serving Files Statically (7:49)	✓
21. Assignment - Navigation (Problem) (1:11)	✓
22. Assignment - Navigation (Solution) (8:32)	✓
23. Wrap Up (3:36)	✓
24. Useful Resources & Links	✓

## 06-Working with Dynamic Content & Adding Templating Engines

1. Module Introduction (2:31)	✓
2. Sharing Data Across Requests & Users (8:05)	✓
3. Templating Engines - An Overview (4:40)	✓
4. Installing & Implementing Pug (11:04)	✓
5. Outputting Dynamic Content (11:02)	✓
6. Converting HTML Files to Pug (5:55)	✓
7. Adding a Layout (5:35)	✓
8. Finishing the Pug Template (5:50)	✓
9. Working with Handlebars (5:08)	✓
10. Converting our Project to Handlebars (7:41)	✓
11. Adding the Layout to Handlebars (8:41)	✓
12. Working with EJS (8:19)	✓
13. Working on the Layout with Partial (9:33)	✓
14. Wrap Up (3:46)	✓
15. Assignment - Templating Engines (Problem) (1:36)	✓
16. Assignment - Templating Engines (Solution) (25:02)	✓
17. Useful Resources & Links	✓

## Week 3

### 07-The Model View Controller (MVC)

1. Module Introduction (0:52)	✓
2. What is the MVC? (2:48)	✓
3. Adding Controllers (9:20)	✓
4. Finishing the Controllers (2:37)	✓
5. Adding a Product Model (8:05)	✓
6. Storing Data in Files Via the Model (9:39)	✓
7. Fetching Data from Files Via the Model (3:55)	✓
8. Refactoring the File Storage Code (4:25)	✓
9. Wrap Up (2:15)	✓
10. Useful Resources & Links	✓

### 08-Optional: Enhancing the App

1. Module Introduction (1:21)	✓
2. Creating the Shop Structure (5:34)	✓
3. Working on the Navigation (2:49)	✓
4. Registering the Routes (11:04)	✓
5. Storing Product Data (5:15)	✓
6. Displaying Product Data (3:02)	✓
7. Editing & Deleting Products (4:47)	✓
8. Adding Another Item (2:08)	✓
9. Useful Resources & Links	✓

### 09-Dynamic Routes & Advanced Models

1. Module Introduction (1:07)	✓
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2. Preparations (1:23)	✓
3. Adding the Product ID to the Path (4:34)	✓
4. Extracting Dynamic Params (4:32)	✓
5. Loading Product Detail Data (4:52)	✓
6. Rendering the Product Detail View (5:26)	✓
7. Passing Data with POST Requests (7:19)	✓
8. Adding a Cart Model (12:29)	✓
9. Using Query Params (7:54)	✓
10. Pre-Populating the Edit Product Page with Data (6:46)	✓
11. Linking to the Edit Page (2:20)	✓
12. Editing the Product Data (8:58)	✓
13. Adding the Product-Delete Functionality (5:34)	✓
14. Deleting Cart Items (8:11)	✓
15. Displaying Cart Items on the Cart Page (8:45)	✓
16. Deleting Cart Items (5:24)	✓
17. Fixing a Delete Product Bug (1:31)	✓
18. Wrap Up (1:46)	✓
19. Useful Resources & Links	✓