

Duration:90 hours

## Web Development Basics – HTML,CSS,Bootstrap



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- How websites work
- Web Development Overview - Advantages
- HTML Introduction
- Structure of Webpage
- HTML Tags
- Texts, Images, Videos
- Lists, Forms, Tables
- Links, Anchor tags
- HTML Divs
- CSS Introduction
- Inline vs Internal vs External styling
- CSS Display
- CSS Font Styling, background, margin, padding
- Styling Lists, Tables, Forms
- FontAwesome
- Transitionals, Transformations, Animations
- Styling button
- Tool tip, Box Sizing, Flex, Grid
- Bootstrap containers
- Bootstrap Tables, Images, Colors
- Bootstrap Alerts, Buttons
- Bootstrap Spinners, Cards, Pagination, Drop Down

## Javascript

- Introduction to Javascript
- Variables, scoping, Data type
- Strings and Numbers
- Operators and loops
- Functions
- Arrays and Objects
- Data Structures - List, Stack, Queues, Maps
- Hashing
- Understanding and working with DOM
- Developer tools in Browsers
- Prototypes
- Closures

- Browser Local Storage
- JQuery, Ajax
- Promises
- ES5 vs ES6 vs ES7
- Eventloop in Javascript



## NodeJS

Short Course Content Overview:

- Understanding the Basics of node.js
- Improved Development Workflow and Debugging
- Working with Express.js
- Working with Dynamic Content & Adding Templating Engines
- The Model View Controller (MVC)
- Optional: Enhancing the App
- Dynamic Routes & Advanced Models Learn More About Node.JS and SQL
- SQL Introduction
- Understanding Sequelize
- Working with No SQL and Using MongoDB
- Working with Mongoose
- Sessions & Cookies
- Adding Authentication • Sending Emails
- Advanced Authentication
- Understanding Validation
- Error Handling
- File Upload & Download Node.js SQL, REST APIs Advance Topics
- Adding Pagination

- Understanding Async Requests
- Adding Payments
- Working with REST APIs – The Basics
- Working with REST APIs – The Practical Application
- Understanding Async Await in Node.js
- Understanding Web sockets & Socket.io
- Working with Graph QL
- Deploying our App
- Node.js as a Build Tool & Using NMP

## **Databases**

- SQL vs NOSQL
- MongoDB/ DynamoDB overview
- Installing MongoDB
- Connecting and Inserting Data

