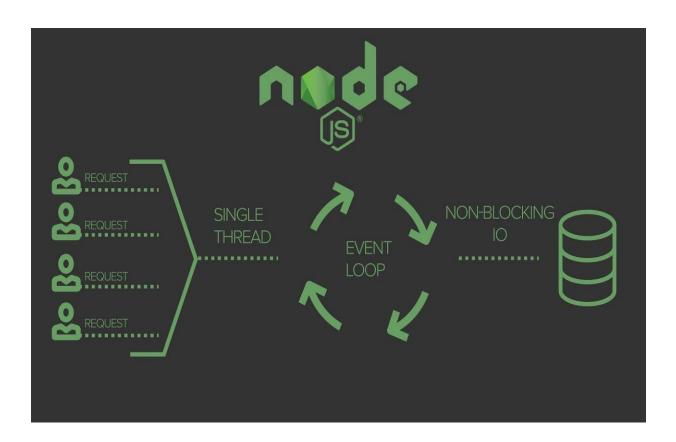# TechyEdz Solutions

Training | Consulting | Developement | Outsourcing

Node JS

Node JS

♦ Course Overview:

Node.js is an open source, cross-platform framework running on Mac OSX, Windows, and Linux. Node.js course has been designed to help developers understand and build web applications with the help of JavaScript. Node.js is an eventdriven, server-side JavaScript environment that runs JavaScript using the V8 engine developed by Google. The course focuses on various important concepts of Node.js and provides hands-on experience in building HTTP server with Node.js, working with file system, buffers, stream, events, and multi-processing in Node.js. The training covers Express.js, which is a powerful and flexible web application framework Our training curriculum is designed to boost you understanding of best practices for the design, development & management of mission-critical Node.js applications.

What you'll learn

- ❖ You will learn Node js from the ground up.
- ❖ Learn how node works inside out
- ❖ Create servers to serve web application
- ❖ Interact with Nosql databases such as mongo.
- ❖ How to work with uploads
- ❖ How sockets work with socket IO

♦ Course Outline:

Introduction and Foundation
- ➢ Introduction
- ➢ The Node.js framework
- ➢ Installing Node.js
- ➢ Using Node.js to execute scripts

Node Projects
- ➢ The Node Package Manager
- ➢ Creating a project
- ➢ The package.json configuration file
- ➢ Global vs. Local package installation

Node JS Modules

- ➤ Functions
- ➤ Buffer
- ➤ Module
- ➤ Modules Types
- ➤ Core Modules
- ➤ Local Modules
- ➤ Modules Exports

Asynchronous programming
- ➤ Call-back functions
- ➤ Working with Promises
- ➤ Advance promises
- ➤ Using Request module to make api calls

Node Package Manager

- ➤ What is NPM
- ➤ Installing Packages Locally
- ➤ Installing package globally
- ➤ Adding dependency in package Json
- ➤ Updating packages

Creating Web Server

- ➤ Creating Web Server
- ➤ Sending Requests
- ➤ Handling HTTP requests

File System

- ➤ Read File
- ➤ Writing a File
- ➤ Opening a File
- ➤ Deleting a File
- ➤ Writing a file asynchronously
- ➤ Other I/O Operations

Debugging Node JS Application

- ➢ Core Node JS Debugger

Events

- ➢ Event Emitter class
- ➢ Inheriting Events
- ➢ Returning event emitter

HTTP Server with APIs
- ➢ The HTTP protocol
- ➢ Building an HTTP server
- ➢ Rendering a response
- ➢ Processing query strings
- ➢ Processing posted data

Express JS

- ➢ Configuring Routes
- ➢ Working with Express

MongoDB and Sqlite
- ➢ How Node.js connects to databases
- ➢ RDBMS databases and NoSQL databases
- ➢ Connecting to RDBMS and Mongodb databases
- ➢ Performing CRUD operations

Serving Static Resources

- ➢ Serving Static Files
- ➢ Working with Middle Ware

Database Connectivity

- ➢ Connecting String
- ➢ Configuring
- ➢ Updating Records
- ➢ Working with Select Command
- ➢ Deleting Records

Project Development

➤ Project Development using Node JS

➕ Prerequisites:
- If you are acquainted with JavaScript then you would find Node Js simple to learn.
- Knowing a liitle bit of HTML, CSS and Javascript, everything else you will learn it as we go.

➕ Who can attend:

- Students who want to learn web development
- From beginners in javascript to intermediate.
- Technical project managers
- Technical leads
- QAs
- Architects
- Full Stack Web Developers

➕ Number of Hours: 50hrs

➕ Key Features:
➤ One to One Training
➤ Online Training
➤ Fastrack & Normal Track
➤ Resume Modification
➤ Mock Interviews
➤ Video Tutorials
➤ Materials
➤ Real Time Projects
➤ Virtual Live Experience
➤ Preparing for Certification