

NodeJS Training

Duration: 2 days

COURSE CONTENT

- Introduction
- Foundation
 - 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
- Working with password vault manager
(This console based application we will build to secure our social app credential)
- Working with shrink-wrap to lock the node modules versions
 - What is shrink-wrap
 - Working with npmvet
 - Working with outdated command
- Working with asynchronous programming
 - Asynchronous basics
 - Callback functions
 - Working with Promises
 - Advance promises
 - Using Request module to make api calls
- Working with real time weather app
(mini application using asynchronous programming to get real time data from weather station)
- Building a HTTP Server with Node.JS using HTTP APIs
 - The HTTP protocol

- Building an HTTP server
 - Rendering a response
 - Processing query strings
 - Processing posted data
- File System
 - Synchronous vs. asynchronous I/O
 - Path and directory operations
 - `__dirname` and `__filename`
 - Asynchronous file reads and writes
- Buffers, Streams, and Events
 - Using buffers for binary data
 - Flowing vs. non-flowing streams
 - Streaming I/O from files and other sources
 - Processing streams asynchronously
- Multi-Processing in NodeJS
 - Working with Child Process API
 - Working with Cluster API for multi-core servers
- Express
 - Configuring Express
 - Postman configuration
 - Using REST
- Testing
 - Working with Chai
 - Working with Mocha
 - Working with sinon
- Working with security
 - JWT
 - Auth-0 Introduction