Node Package Manager (NPM) Training Curriculum

STRUCTURE

NPM (Node Package Manager) Training Curriculum

"Learn to build and publish your own NPM modules so other developers can use."

About Croma Campus:

Croma Campus Training & Development Private Limited is an education platform since 2010 providing rigorous industry-relevant programs designed and delivered in collaboration with world-class faculty and industry.

- Hands-On Live Projects
- Simulation Test Papers
- Industry Cases Studies
- 61,640+ Satisfied Learners
- 140+ Training Courses
- 100% Certification Passing Rate
- Live Instructor Classroom / Online Training
- 100% Placement Assistance

Course Objectives:

- Install node version manager (NVM) to enable them use different versions of node
- Learn to use git and node command prompt
- Create and publish a package that generates random alphanumeric characters
- Publish package that manipulates arrays
- Publish package that works with strings
- Learn to use node http module
- Use JavaScript promises
- Build and publish a package that interacts with an external API
- Write unit tests to test JavaScript functions

Course Description:

NPM (Node Package Manager) is a package manager for node.js packages or modules. NPM consist of a command line client and an online database of public and private packages, called the NPM registry. NPM makes it easy for JavaScript developers to share and reuse codes, and also makes it easy to update the codes.

All packages on the NPM registry solves at least one problem. A package comes with an important file called package.json which usually contains metadata about the project. Packages can be installed as dependencies which are used in the project or as dev dependencies which are only used for testing or for development.

Do you have an idea of a node package/module that will help other developers like you but don't know how to start or where to start from? Are you looking to learn how node modules are built and published? Then this course is for you.

In this course, you will learn step by step on writing the JavaScript codes and adding them to the module files. You will write the codes from scratch and also learn how to publish the modules to the NPM registry.

In this course you will create modules that,

- Generates Random Alphanumeric Characters
- Allows Arrays to be Manipulated
- Manipulates Strings
- Interact with External API to Return Results

You will also learn:

- To setup the project for git and add the codes to the GitHub repository
- To setup the projects for NPM
- To write JavaScript functions to work with array and strings
- To write unit tests using mocha, expect, and super test libraries
- To publish the modules

Croma Campus Training Program Deliverables:

- **Session Recordings** - Original Class Room Voice & Video Recording
- **Training Material** - Soft Copy Handbooks
- **Assignments | 25+ Hands-on Exercises**
- **Test Papers** - We provide **Practice Test** as part of our course to help you prepare for the actual certification exam.
- **Live Case Studies**
- **Live Projects** - Hands-on exercises and Project work. You will work on real time industry-oriented projects and assignments for each module to practice.
- **Key focus on Hands-on exercises and Project work**. You will work on real time industry-oriented projects.
- Faculty with more than **10+ Years of Experience** in the Industry.
- **Technical Resume Designing & Job Assistance:** With more than 100+ Clients across the Globe and we help learners to get a good job in their respective field. We also help learners with resume preparation.
- **Interview Q&A**
- **About Croma Campus Training Certificate:** Croma Campus will provide you with an industry-recognized (Certified by **ISO 9001:2015** & **E-Cell IIT Jodhpur**) course completion certificate which has lifelong validity.
- **How I Unlock my Croma Campus Certificate:** Attend Complete Batch & Submit at least One Completed Project.

Course Content:

Module 1: Overview

- Overview
- Installing Node
- Node Version Manager
- Installing Git
- Node Package Manager (NPM)

Module 2: Random Strong Module

- Section Introduction

- Create Random Character Function
- Node Crypto Module
- Setup Project for GitHub
- Add Random Character Function to Server.js File
- Add Text to README File
- Publish Random String Module

Module 3: JavaScript Array Modules

- Section Introduction
- Sum and Average Array Function
- Maximum and Minimum Array Function
- Unique Array Function
- Unique String Array Function
- Project Setup
- Adding All Functions to Project and Exporting
- Running Unit Test with Mocha and Expect Assertion Libraries
- Publish Module to NPM

Module 4: JavaScript String Module

- Section Introduction
- Function to Convert First Letter of a Word to Uppercase
- Function to Repeat A String
- Function to Check If A String Ends with A Given Letter
- Reverse String Function
- Function to return the longest word in a sentence
- Setup Project
- Publish String Module to NPM

Module 5: Fixer.io Node Module

- Section Introduction
- Node HTTP Module
- Fixer.io API
- Function to Return latest Currency Exchange Rate
- Function to Return Historical, Specific Rate and Set Base Currency for Fixer.io
- Trying Out Module Before Publishing
- Unit test With Mocha and Super test Library
- Update Server File
- Publish Module to NPM