

# From Zero to Node REST APIs

A popular method for creating REST APIs for applications to connect to is Node.js. There are many benefits to using Node including JavaScript is the language you use to program it, extremely fast, cross-platform, easy to learn, very scalable, and more. If you have ever wanted to learn how to program Node, then this course is for you.

## Learning Objectives

Create a Node server for REST APIs

Retrieve and search for data

Learn to POST, PUT, PATCH, and DELETE data

Handle exceptions

## Prerequisites

We assume you have a good knowledge of JavaScript.

## Course Length

1 day for hands-on

## Module 1: Setup a Node Server

Setup your computer's environment

Install Node and npm

Install Postman

Install VS Code and appropriate extensions

Create new node server

Create express server

Write code to get data

## Module 2: Get Data

- Create JSON file for data
- Return HTTP status code and JSON
- Wrap envelope around return data
- Create module
- Read file asynchronously
- Retrieve a single piece of data
- Searching for data

## Module 3: Modifying Data

- Write code to insert data
- Add middleware to parse JSON data
- Write code to update data
- Write code to delete data
- Write code to patch data

## Module 4: Exception Handling

- Exploring the built-in exception handling
- Adding exception handling middleware
- Add additional error handler
- Add an error helper module
- Logging exceptions

## Module 5: Calling APIs from HTML Pages

- Installing CORS
- Create a Node website

Call REST APIs using XMLHttpRequest object

Call REST APIs using jQuery Ajax