



# VueJS

Duration 3 day(s) (VUEJS-01)

Operational with VueJS

## Description

Vue.js is a progressive JavaScript framework for creating rich applications. Vue.js is a lightweight platform, easy to understand, simple to integrate, and flexible that has a huge Open Source support from developers and organizations.

## Goals

- Discover VueJS
- Develop a rich application
- Integrating into a REST oriented architecture

### *Public*

- Web developer

### *Prerequisites*

- JavaScript, NodeJS Ecosystem

### *Structure*

40% Theory, 60% Practice

# Program

## What is Vue.js

- Basics Concepts
- Comparison with other solutions

## The Application instance

- Create an App instance
- Mount a DOM element
- Data properties
- Lifecycle hooks

## Components

- Template
- Data
- Props
- Methods
- Computed properties
- Watchers
- Slots
- Render functions
- JSX

## Vue-CLI

- Bundler
- Single File Components
- Custom Vue-CLI template
- Plugins
- Presets

## Directives

- Conditional Rendering
- List Rendering
- Class and Style bindings
- Event Handling
- Form Input bindings
- Custom directive

## Reactivity

- Vue 3 and reactivity introduction
- Reactivity API
- The setup method
- Composition API
- Lifecycle hooks

## Routing

- Basic Routing
- Dynamic Route Matching
- Named routes and views
- Programmatic Navigation
- Redirect
- Alias

## Data Fetching

- Fetch Data
- Post Data

## Plugins

- Use a plugin
- Write a plugin

## Typescript

- Declare component

- Pass props
- Component method
- Computed Properties
- Watchers

#### **Vuex**

- State management
- Getters
- Mutations
- Actions
- Modules

#### **Tests**

- Test runner
- Test framework
- Vue testing tools
- End to end

#### **Server-Side Rendering**

- Use Express.js
- Use a template page
- Use Nuxt