

Vue.js: Vuex State & vue-router

Learn to build Vue.js single-page applications with reusable components, HTTP data fetching, Vuex state, and vue-router navigation.

5 Days

40 HOURS

7

MODULES

48

TOPICS

COURSE OVERVIEW

The Vue.js with Vuex course is an in-depth guide designed to equip learners with a comprehensive understanding of Vue.js, one of the most popular JavaScript frameworks. It is tailored to help learners build dynamic and powerful single-page applications efficiently. Module 1: Understanding Vue 3 and Creating Components serves as an introduction to Vue.js, explaining why it is a go-to framework for modern web development. It walks through the creation of a first project using Vue CLI, crafting custom components, and enhancing code reusability with mixins. As learners progress, they will delve into data binding, form handling, managing events, and leveraging computed properties to create responsive and interactive web interfaces. They'll explore component communication, ensuring components work together seamlessly. The course also covers how to fetch data from the web using HTTP requests, manage application state with Vuex, and handle routes with vue-router. Additionally, it introduces UI frameworks such as Vuetify to style applications beautifully and discusses best practices in unit testing to ensure code reliability. By the end, participants will have a solid grasp of Vue.js, allowing them to build and maintain scalable web applications.

WHO THIS COURSE IS FOR

Koenig Solutions' Vue.JS with Vue-Ex course is a comprehensive training program for developers looking to master Vue.js and modern front-end development.

Front-End Developers

JavaScript Developers

Full-Stack Developers

Web Developers

UI/UX Designers interested in learning to implement their designs with Vue.js

Technical Leads and Architects seeking to adopt Vue.js in their projects

Software Engineers looking to transition to front-end development

IT Professionals wanting to upskill in modern JavaScript frameworks

Computer Science Students and Graduates aiming to enhance their front-end skills

Freelancers aiming to offer Vue.js development services

Entrepreneurs or Startup owners looking to understand Vue.js for their tech stack

What You Will Learn

- Create Vue 3 components and mixins with Vue CLI
- Apply two-way data binding, form validation, and computed properties
- Implement component communication using slots and dependency injection
- Fetch web data using Axios and the Fetch API
- Configure routes, redirects, and navigation guards with vue-router
- Manage application state using Vuex actions, mutations, and getters
- Build styled interfaces and tables with Vuetify
- Debug applications using vue-devtools

COURSE SYLLABUS

7 Modules, 48 Topics

01

Understanding Vue 3 and Creating Components

TOPICS

- Introduction to Vue JS
- Why VueJS
- Reason to learn VueJS
- Creating your first project with Vue CLI
- Creating your first Vue component with vue-class-component
- Creating a custom mixin with vue-class-component

02

Data Binding, Form Validations, Events, and Computed Properties

TOPICS

- Creating the “hello world” component
- Creating an input form with two-way data binding
- Adding an event listener to an element
- Removing the v-model from the input
- Creating a dynamic to-do list
- Creating computed properties and understanding how they work
- Displaying cleaner data and text with custom filters
- Adding form validation with Vuelidate
- Creating filters and sorters for a list
- Creating conditional filters to sort list data
- Adding custom styles and transitions
- Using vue-devtools to debug your application

03

Components and Component Communication

TOPICS

- Using slots and named slots to place data inside your components
- Passing data to your component and validating the data
- Accessing your children components data
- Creating a dynamic injected component
- Creating a dependency injection component
- Lazy loading your components

04

Fetching Data from the Web via HTTP Requests

TOPICS

- Creating a wrapper for the Fetch API as an HTTP client
- Using axios as the new HTTP client
- Creating your fake JSON API server with MirageJS
- Creating a CRUD interface with Axios and Vuesax

05

Managing Routes with vue-router

TOPICS

- Creating a simple route
- Creating a programmatic navigation
- Creating a dynamic router path
- Creating a route alias
- Creating route redirects
- Creating a nested router view
- Creating a 404-error page
- Creating and applying authentication middleware
- Lazy loading your pages asynchronously

06

Managing the Application State with Vuex

TOPICS

- Creating a simple Vuex store
- Creating and understanding the Vuex state
- Creating and understanding the Vuex mutations
- Creating and understanding the Vuex getters
- Creating and understanding the Vuex actions
- Creating a dynamic component with Vuex
- Creating a Vuex module

07

Creating Beautiful Applications Using UI Frameworks

TOPICS

- Creating a page, a layout, and a user form with Vuetify
- Creating custom tables
- Creating custom UI Designs
- Custom Pagination

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Hands-on exercises throughout the course
- Delivery by certified instructors and subject matter experts
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

Visit koenig-solutions.com

✉ info@koenig-solutions.com