

# N U X T . J S

## 1. Introducing Nuxt

- From Vue to Nuxt
- Why use Nuxt?
- Writing single-file components
- Writing ES2015+
- Types of applications
- Traditional server-side rendered app
- Traditional single-page app (SPA)
- Universal server-side rendered app (SSR)
- Static-generated app
- Nuxt as a universal SSR app
- Nuxt as a static site generator
- Nuxt as a single-page app

## 2. Getting Started with Nuxt

- Technical requirements
- Installing Nuxt
  - Using create-nuxt-app
  - Starting from scratch
- Understanding the directory structure
  - The assets directory
  - The static directory
  - The pages directory
  - The layouts directory
  - The components directory
  - The plugins directory
  - The store directory
  - The middleware directory
  - The package.json file
  - The nuxt.config.js file
  - The aliases
- Understanding custom configuration
  - The mode option
  - The target option
  - The head option
  - The css option
  - The plugins option
  - The components option
  - The buildModules option
  - The modules option
  - The build option
  - The dev option
  - The rootDir option
  - The srcDir option
  - The server option
  - The env option

- The router option
- The dir option
- The loading option
- The pageTransition and layoutTransition options
- The generate option

### 3. Adding Views, Routes

- Creating custom routes
  - Introducing Vue Router
  - Installing Vue Router
  - Creating routes with Vue Router
  - Creating basic routes
  - Creating dynamic routes
  - Creating nested routes
  - Creating dynamic nested routes
  - Validating route params
  - Handling unknown routes with `_.*vue` files
- Creating custom views
  - Understanding the Nuxt view
  - Customizing the app template
  - Creating a custom HTML head
    - Introducing Vue Meta
    - Installing Vue Meta
    - Creating metadata with Vue Meta in Vue apps
    - Customizing the default meta tags in Nuxt apps
    - Creating custom meta tags for Nuxt pages
  - Creating custom layouts
    - Modifying the default layout
    - Creating new custom layouts
    - Creating custom error pages
  - Creating custom pages
  - Understanding pages
    - The `asyncData` method
    - The `fetch` method
    - The `head` method
    - The `layout` property
    - The `loading` property
    - The `transition` property
    - The `scrollToTop` property
    - The `validate` method
    - The `middleware` property

### 4. Adding Vue Components

- Understanding Vue components

- What is a component?
- Passing data to child components with props
- Listening to child component events
  - Emitting a value with an event
- Creating custom input components with v-model
  - Customizing the model in custom input components
- Understanding the key attribute in v-for loops
- Controlling reusable elements with key attributes
- Creating single-file Vue components
  - Compiling single-file components with webpack
  - Passing data and listening to events in single-file components
  - Adding Vue components in Nuxt
    - Refactoring navigation and social links
    - Refactoring the copyright component
- Registering global and local components
  - Registering global components in Vue
  - Registering local components in Vue/Nuxt
  - Registering global components in Nuxt
- Writing basic and global mixins
  - Creating basic mixins/non-global mixins
  - Creating global mixins
- Defining component names and using naming conventions
  - Multi-word component names
  - Component data
  - Prop definitions
  - Component files
  - Single-file component filename casing
  - Self-closing components

## 5. Adding Vue Forms

- Understanding v-model
  - Using v-model in text and textarea elements
  - Using v-model in checkbox and radio elements
  - Using v-model in select elements
- Validating forms with basic data bindings
  - Validating text elements
  - Validating textarea elements
  - Validating checkbox elements
  - Validating radio elements
  - Validating select elements
- Making dynamic value bindings
  - Replacing Boolean – checkbox elements
  - Replacing strings with dynamic properties – radio elements
  - Replacing strings with objects – select options elements
- Using modifiers
  - Adding .lazy

- Adding .number
- Adding .trim

## 6. Adding a Server-Side Framework

- Introducing Koa
- Installing and configuring Koa
- What is ctx?
- Understanding how Koa cascading works
- Installing dependencies for Koa apps
- Integrating Koa with Nuxt
- Adding routes and other essential middleware
- Understanding async data
- Returning a promise
- Using async/await
- Merging the data
- Accessing context in asyncData
- Accessing the req/res objects
- Accessing the dynamic route data
- Listening to the query changes
- Handling errors
- Fetching async data with Axios
- Installing and configuring Axios
- Fetching data with Axios and asyncData
- Listening on the query change

## 7. Adding a Server-Side Database

- Introducing MongoDB
- Installing MongoDB
- Installing on Ubuntu 20.04
- Starting MongoDB
- Writing basic MongoDB queries
- Creating a database
- Creating a new collection
- Writing MongoDB CRUD operations
- Injecting data with MongoDB CRUD
- Inserting documents
- Querying documents
- Updating documents
- Deleting documents
- Integrating MongoDB with Koa
- Installing the MongoDB driver
- Creating a simple app with the MongoDB driver
- Configuring the MongoDB driver
- Understanding ObjectId and the ObjectId method
- Injecting one document
- Fetching all documents
- Updating one document
- Deleting one document

- Integrating with Nuxt Pages
- Creating an add page for adding new users
- Creating an update page for updating existing users
- Creating a delete page for deleting existing users

## **8. Adding a Vuex Store**

- Understanding the Vuex architecture
- What is Vuex?
- State management pattern
- Getting started with Vuex
- Installing Vuex
- Creating a simple store
- Understanding Vuex core concepts
- The state
- Accessing the state
- The mapState helper
- Getters
- The mapGetters helper
- Mutations
- The mapMutations helper
- Actions
- The mapActions helper
- Modules
- Understanding namespacing