Complete Vue Mastery Course Guide

For more courses, resources and workshop, visit https://zerotomastery.io

Vue Fundamentals

Getting Started

- section-2-1-STARTER.zip
- section-2-1-COMPLETE.zip
- Vue Installation - https://vuejs.org/guide/quick-start.html#without-build-tools

Vue Dev Tools

- Vue Dev Tools Installation -

  https://vuejs.org/guide/scaling-up/tooling.html#browser-devtools

Binding Attributes

- section-2-9-COMPLETE.zip

Listening to Events

- section-2-11-COMPLETE.zip

Event Modifiers

- Event Modifiers - https://vuejs.org/guide/essentials/event-handling.html#event-modifiers

Keyboard Events and Modifiers

- Key Modifiers - https://vuejs.org/guide/essentials/event-handling.html#key-modifiers
- Keycode - https://keycode.info/

Computed Properties

- Computed Properties - https://vuejs.org/guide/essentials/computed.html

Watchers

- section-2-17-COMPLETE.zip

Binding Classes

- section-2-18-STARTER.zip

Binding Styles

- Classes and Stylings - https://vuejs.org/guide/essentials/class-and-style.html
- section-2-19- COMPLETE.zip

Conditional Rendering

- section-2-20-STARTER.zip

The v-show Directive

- Conditional Rendering - https://vuejs.org/guide/essentials/conditional.html
- section-2-21-COMPLETE.zip

List Rendering

- section-2-22-STARTER.zip
- List Rendering - https://vuejs.org/guide/essentials/list.html#list-rendering

Understanding the role of the key attribute

- section-2-23-STARTER.zip
- section-2-23-COMPLETE.zip
- Maintaining State -https://vuejs.org/guide/essentials/list.html#maintaining-state-with-key

Project 1: Perspective Playground

Creating a Perspective Playground

- section-3-1-STARTER.zip

Copying to the Clipboard

- Clipboard API - https://developer.mozilla.org/en-US/docs/Web/API/Clipboard_API
- section-3-2-COMPLETE.zip

Vue: Beyond the Fundamentals

Mounting the Vue Instance

- section-4-1-STARTER.zip

Using Lifecycle Hooks

- Vue Lifecycle - https://vuejs.org/guide/essentials/lifecycle.html
- section-4-3-COMPLETE.zip

Understanding Reactivity with Proxies

- Codepen - https://codepen.io/

- Proxy Object - https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Proxy

The Vue Compiler

- Vue Builds - https://github.com/vuejs/core/tree/main/packages/vue#which-dist-file-to-use
- CDN JS - https://cdnjs.com/libraries/vue/3.2.37

Introduction to Components

- section-4-7-COMPLETE.zip

Vue Developer Environment

Understanding Sass

- SASS - https://sass-lang.com/
- Sass Color Functions - https://sass-lang.com/documentation/modules/color

PostCSS

- PostCSS Parts - https://www.postcss.parts/

Installing ESLint

- ESLint - https://eslint.org/

Configuring ESLint

- ESLint Rules - https://eslint.org/docs/latest/rules/
- section-5-7-COMPLETE.zip

Webpack

- webpack-example.zip
- section-5-8-COMPLETE.zip

Advanced Vue Components

Scaffolding a Vue Project

- Create Vue - https://github.com/vuejs/create-vue

Component Styles

- Scoped CSS - https://vue-loader.vuejs.org/guide/scoped-css.html#scoped-css

Validating Props

- Type Checks - https://vuejs.org/guide/components/props.html#prop-validation

Callback Functions

- section-6-13-COMPLETE.zip

Named Slots

- Slots - https://vuejs.org/guide/components/slots.html
- section-6-15-COMPLETE.zip

Dynamic Components

- section-6-16-COMPLETE.zip

Transitions & Animations

Animating with CSS Transitions

- section-7-1-STARTER.zip

Fine-tuning Animations

- Transitions - https://vuejs.org/guide/built-ins/transition.html

JavaScript Zoom Animation

- Web Animation API -
  https://developer.mozilla.org/en-US/docs/Web/API/Web_Animations_API/Using_the_Web_Animations_API

Transition CSS Class Names

- Animate.css - https://animate.style/
- Animate.css CDN - https://cdnjs.com/libraries/animate.css
- section-7-9-COMPLETE.zip

Project 2: Vue Quiz App

Setting up the Quiz Application

- Static Assets Handling - https://vitejs.dev/guide/assets.html
- section-8-1-STARTER.zip

Finishing Touches

- section-8-4-COMPLETE.zip

Master Project: Introduction to Pinia

Reviewing the Files

- Style Guide - https://vuejs.org/style-guide/

Adding the Template

- music-template.zip

What is Tailwind?

- TailwindCSS - https://tailwindcss.com/
- PurgeCSS - https://purgecss.com/

Installing Tailwind

- Tailwind Installation - https://tailwindcss.com/docs/guides/vite

Splitting the Template into Components

- Component Name Style Guide -

    https://vuejs.org/style-guide/rules-essential.html#use-multi-word-component-names

Adding Tabs

- music-9-22-COMPLETED.zip

Master Project: Form Validation

Setting up Form Validation

- Vuelidate - https://vuelidate-next.netlify.app/
- Vee Validate - https://vee-validate.logaretm.com/v4/

Validation Components

- The Field Component - https://vee-validate.logaretm.com/v4/api/field

Defining Rules

- Vee Validate Rules -
    https://vee-validate.logaretm.com/v4/guide/global-validators#vee-validaterules

Sidebar: Slot Properties

- section-10-12-STARTER.zip
- section-10-12-COMPLETE.zip
- Scoped Slots - https://vuejs.org/guide/components/slots.html#scoped-slots

Custom Error Messages

- Global Message Generator -

    https://vee-validate.logaretm.com/v4/guide/i18n#global-message-generator

Showing Alerts

- How we spent 30k USD in Firebase in less than 72 hours -

    https://hackernoon.com/how-we-spent-30k-usd-in-firebase-in-less-than-72-hours-307490
    bd24d

Setting up the Login Form

- music-10-18-COMPLETED.zip

Master Project: Authentication

Understanding Authentication

- Firebase - https://firebase.google.com/

Reviewing the Rules

- Firebase Rules - https://firebase.google.com/docs/rules

Setting up the Firebase SDK

- Firebase Web Setup - https://firebase.google.com/docs/web/setup

User Registration

- Firebase Auth - https://firebase.google.com/docs/reference/js/v8/firebase.auth.Auth

Handling the Response

- Authentication SDK - https://firebase.google.com/docs/reference/js/v8/firebase.auth.Auth

Understanding Authentication

- Firebase Request Auth -

  https://firebase.google.com/docs/reference/rules/rules.firestore.Request#auth

Connecting the User with their Data

- createUserWithEmailAndPassword() Function -

  https://firebase.google.com/docs/reference/js/v8/firebase.auth.Auth#createuserwithemail
  andpassword

Setting up the Login

- signInWithEmailAndPassword() Function -

  https://firebase.google.com/docs/reference/js/v8/firebase.auth.Auth#signinwithemailandp
  assword

JSON Web Tokens

- JWT - https://jwt.io/
- Base64Decode - https://www.base64decode.org/
- music-11-17-COMPLETED.zip

Master Project: Routing

Understanding Routing

- Vue Router - https://router.vuejs.org/

Reviewing the Router Configuration

- Env Variables - https://vitejs.dev/guide/env-and-mode.html

History Mode

- History API - https://developer.mozilla.org/en-US/docs/Web/API/History_API
- History Mode - https://router.vuejs.org/guide/essentials/history-mode.html

Tailwind Styles for Active Links

- AP Reference - https://router.vuejs.org/api/

Guarding Routes

- Navigation Guard - https://router.vuejs.org/guide/advanced/navigation-guards.html

Route Meta Fields

- Route Meta Fields - https://router.vuejs.org/guide/advanced/meta.html
- music-12-15-COMPLETED.zip

Master Project: Uploading Files

Handling the File

- HTML5 Audio -
  https://en.wikipedia.org/wiki/HTML5_audio#Supported_audio_coding_formats

Firebase Rules and Validation

- Firebase Secure Files - https://firebase.google.com/docs/storage/security/core-syntax

Adding the Progress Bar

- Upload Files - https://firebase.google.com/docs/storage/web/upload-files

Improving the Progress Bar

- Font Awesome - https://fontawesome.com/
- Tailwind Text Color - https://tailwindcss.com/docs/text-color

Handling Errors and Successful Uploads

- Error Codes - https://firebase.google.com/docs/storage/web/handle-errors

Storing the File Data in the Database

- File Metadata - https://firebase.google.com/docs/storage/web/file-metadata

Fallback Upload

- Drag and Drop Support - https://caniuse.com/dragndrop

One More thing about References

- section-13-16-STARTER.zip

Deleting a Song from the Storage/Database

- Delete Files - https://firebase.google.com/docs/storage/web/delete-files
- Security Rules -
  https://firebase.google.com/docs/firestore/security/rules-structure#granular_operations

Router Leave Guards

- music-13-26-COMPLETED.zip

Master Project: Playing Music

Path Parameters

- Dynamic Route Matchmaking - https://router.vuejs.org/guide/essentials/dynamic-matching.html

Updating the Comment Count

- No PlusPlus -https://eslint.org/docs/rules/no-plusplus

Storing the Song in the State

- Howlerjs - https://howlerjs.com/

Toggling Audio

- Howler Documentation - https://github.com/goldfire/howler.js#documentation

Route Transitions

- music-14-22-COMPLETED.zip

Master Project: Directives

Registering a Directive Locally

- music-15-5-COMPLETED.zip

Master Project: Internationalization

Introduction to I18N

- Vue I18N - https://vue-i18n.intlify.dev/guide/
- Language Codes - https://www.science.co.il/language/Locale-codes.php

Formatting and Pluralization

- Pluralization - https://vue-i18n.intlify.dev/guide/essentials/pluralization.html

Number Localizations

- Number Localization - https://vue-i18n.intlify.dev/guide/essentials/number.html
- Number Format - https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Intl/NumberFormat

Translating HTML with Component Interpolation

- Component Interpolation - https://vue-i18n.intlify.dev/guide/advanced/component.html

Exercise: Translating the Rest of the App

- music-16-7-COMPLETED.zip

Master Project: PWA

The Manifest File

- Install Criteria - https://web.dev/install-criteria/

Configuring the Manifest File

- PWA Plugin Manifest File -
  https://vite-plugin-pwa.netlify.app/guide/pwa-minimal-requirements.html#web-app-manifest
- Manifest File - https://developer.mozilla.org/en-US/docs/Web/Manifest

Offline Support with Service Workers

- Workbox - https://developer.chrome.com/docs/workbox/

Firebase Data Persistence

- Enable Persistence -
  https://firebase.google.com/docs/reference/js/v8/firebase.firestore.Firestore#enablepersistence

Handling Offline Uploads

- music-17-9-COMPLETED.zip

Master Project: Performance Optimizations

Auto-Registering Global Components

- Lodash - https://lodash.com/

Progress Bar

- N Progress - https://ricostacruz.com/nprogress/

Rollup Visualizer

- Rollup Plugin Visualizer - https://github.com/btd/rollup-plugin-visualizer
- music-18-7-COMPLETED.zip

Master Project: Deployment + Production

Deploying an App with Vercel

- Vercel - https://vercel.com/

Master Project: Testing Your Vue App

Introduction to Vitest

- Jest - https://jestjs.io/
- Mocha - https://mochajs.org/
- Jasmine - https://jasmine.github.io/

Writing our First Test

- expect() Function - https://vitest.dev/api/#expect

Testing the Inner Content

- Wrapper Methods - https://test-utils.vuejs.org/api/#wrapper-methods

E2E Testing Overview

- Cypress - https://www.cypress.io/

Writing an E2E Test

- music-20-18-COMPLETED.zip

Composition API

Mixins

- Mixins - https://vuejs.org/api/options-composition.html#mixins
- section-21-2-STARTER.zip

Reactive References

- refs() vs reactive() -
  https://vuejs.org/guide/extras/reactivity-transform.html#refs-vs-reactive-variables
- section-21-3-STARTER.zip

Advantages of the Composition API

- section-21-10-COMPLETE.zip

Router Hooks

- section-21-11-STARTER.zip

Pinia Hooks

- section-21-12-COMPLETE.zip

The setup Attribute

- section-21-14-COMPLETE.zip

Component Design Patterns

Controlled Components

- section-22-2-STARTER.zip

Separation of Concerns

- section-22-3-COMPLETE.zip

Third-party Libraries as Controlled Components

- section-22-4-STARTER.zip
- section-22-4-COMPLETE.zip
- Emoji Button - https://emoji-button.js.org/
- Emoji Button API Docs - https://emoji-button.js.org/docs/api/

Moving Beyond Vue's Event System

- section-22-5-STARTER.zip

Encapsulating Scrolling

- Lipsum - https://www.lipsum.com/

The Teleport Component

- section-22-7-COMPLETE.zip