Complete Vue Mastery Course Guide

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Vue Fundamentals

Getting Started

- section-2-1-STARTER.zip
- section-2-1-COMPLETE.zip
- Vue Installation - https://v3.vuejs.org/guide/installation.html

Vue Dev Tools

- Vue Dev Tools Installation - https://v3.vuejs.org/guide/installation.html#vue-devtools

Binding Attributes

- section-2-9-COMPLETE.zip

Listening to Events

- section-2-11-COMPLETE.zip

Event Modifiers

- Events - https://v3.vuejs.org/guide/events.html

Keyboard Events and Modifiers

- Key Modifiers - https://v3.vuejs.org/guide/events.html#key-modifiers
- Keycode - https://keycode.info/

Computed Properties

- Computed Properties - https://v3.vuejs.org/guide/computed.html

Watchers

- section-2-17-COMPLETE.zip

Binding Classes

- section-2-18-STARTER.zip

Binding Styles

- Classes and Stylings - https://v3.vuejs.org/guide/class-and-style.html
- section-2-19- COMPLETE.zip

Conditional Rendering

- section-2-20-STARTER.zip

The v-show Directive

- Conditional Rendering - https://v3.vuejs.org/guide/conditional.html
- section-2-21-COMPLETE.zip

List Rendering

- section-2-22-STARTER.zip
- List Rendering - https://v3.vuejs.org/guide/list.html#list-rendering

Understanding the role of the key attribute

- section-2-23-STARTER.zip
- section-2-23-COMPLETE.zip
- Maintaining State - https://v3.vuejs.org/guide/list.html#maintaining-state

Project 1: Perspective Playground

Creating a Perspective Playground

- section-3-1-STARTER.zip

Copying to the Clipboard

- section-3-2-COMPLETE.zip

Vue: Beyond the Fundamentals

Mounting the Vue Instance

- section-4-1-STARTER.zip

Using Lifecycle Hooks

- Vue Lifecycle - https://v3.vuejs.org/guide/instance.html#lifecycle-hooks
- 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://v3.vuejs.org/guide/installation.html#explanation-of-different-builds
- CDN JS - https://cdnjs.com/libraries/vue

Introduction to Components

- section-4-7-COMPLETE.zip

Vue Developer Environment

Installing Webpack

- section-5-2-STARTER.zip
- Webpack - https://webpack.js.org/

Installing Babel

- Babel - https://babeljs.io/
- Babel Presets - https://babeljs.io/docs/en/presets

Installing Sass

- Sass - https://sass-lang.com/

Bundling CSS

- Mini CSS Extract Plugin - https://github.com/webpack-contrib/mini-css-extract-plugin

Sass Basics

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

PostCSS

- PostCSS - https://github.com/postcss/postcss
- PostCSS Parts - https://www.postcss.parts/
- section-5-9-COMPLETE.zip

Understanding Linting

- ESLint - https://eslint.org/

Installing ESLint

- Configuring ESLint - https://eslint.org/docs/user-guide/configuring/

Advanced Vue Components

Installing the Vue CLI

- Vue CLI - https://cli.vuejs.org/

Reviewing the Files

- Vue Babel Plugin - https://www.npmjs.com/package/@vue/babel-preset-app

Component Styles

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

Using Sass in Components

- Vue CLI CSS - https://cli.vuejs.org/guide/css.html

Validating Props

- Type Checks - https://v3.vuejs.org/guide/component-props.html#type-checks

Callback Functions

- section-6-13-COMPLETE.zip

Named Slots

- Slots - https://v3.vuejs.org/guide/component-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://v3.vuejs.org/guide/transitions-overview.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://cli.vuejs.org/guide/html-and-static-assets.html#static-assets-handling

- section-8-1-STARTER.zip

Finishing Touches

- section-8-4-COMPLETE.zip

Master Project: Introduction to Vuex

Installing Yarn

- Yarn - https://classic.yarnpkg.com/lang/en/

Reviewing the UI and Files

- Browserslist - https://github.com/browserslist/browserslist

- EditorConfig - https://editorconfig.org/

- Style Guide - https://v3.vuejs.org/style-guide/

Adding the Template

- music-template.zip

What is Tailwind?

- TailwindCSS - https://tailwindcss.com/

- PurgeCSS - https://purgecss.com/

Installing Tailwind

- Tailwind Configuration - https://tailwindcss.com/docs/configuration

Loading Assets

- Static Assets Handling -

    https://cli.vuejs.org/guide/html-and-static-assets.html#static-assets-handling

Splitting the Template into Components

- Component Names Style Guide -

    https://v3.vuejs.org/style-guide/#component-files-strongly-recommended

Adding Tabs

- music-9-22-COMPLETED.zip

Master Project: Form Validation

Setting up Form Validation

- Form Validation - https://vuejs.org/v2/cookbook/form-validation.html

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-validate/rules

Validating the Form

- music-10-11-COMPLETED.zip

Sidebar: Slot Properties

- section-10-12-STARTER.zip

- Scoped Slots - https://v3.vuejs.org/guide/component-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

Handling the Response

- Authentication SDK - https://firebase.google.com/docs/reference/js/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/firebase.auth.Auth.html#createuserwithemailandpassword

Setting up the Login

- signInWithEmailAndPassword() Function -
  https://firebase.google.com/docs/reference/js/firebase.auth.Auth.html#signinwithemailandpassword

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://next.router.vuejs.org/

History Mode

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

Tailwind Styles for Active Links

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

Guarding Routes

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

Route Meta Fields

- Route Meta Fields - https://next.router.vuejs.org/guide/advanced/meta.html

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

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

Canceling Uploads with Refs

- music-13-14-COMPLETED.zip

One More thing about References

- section-13-15-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-13-25-COMPLETED.zip

Master Project: Playing Music

Path Parameters

- Dynamic Route Matchmaking -

  https://next.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: Internationalization

Introduction to I18N

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

Formatting and Pluralization

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

Number Localizations

- Number Localization- https://vue-i18n-next.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-next.intlify.dev/guide/advanced/component.html

Master Project: PWA

The Manifest File

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

Configuring the Manifest File

- Vue CLI PWA Plugin - https://cli.vuejs.org/core-plugins/pwa.html

Workbox

- Workbox - https://developers.google.com/web/tools/workbox

Firebase Data Persistence

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

Handling Offline Uploads

- music-17-8-COMPLETED.zip

Master Project: Performance Optimizations

Auto-Registering Global Components

- Lodash - https://lodash.com/

Progress Bar

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

Code Coverage

- music-18-12-COMPLETED.zip

Master Project: Deployment + Production

Deploying an App with Vercel

- Vercel - https://vercel.com/

Master Project: Testing Your Vue App

Introduction to Jest

- Jest - https://jestjs.io/

- Mocha - https://mochajs.org/

- Jasmine - https://jasmine.github.io/

Writing our First Test

- Vue Jest - https://github.com/vuejs/vue-jest

- Vue CLI Jest Plugin - https://cli.vuejs.org/core-plugins/unit-jest.html

- expect() Function - https://jestjs.io/docs/expect

Testing the Inner Content

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

E2E Testing Overview

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

- Cypress CLI Plugin - https://cli.vuejs.org/core-plugins/e2e-cypress.html

Writing an E2E Test

- music-20-20-COMPLETED.zip

Composition API

Mixins

- section-21-2-STARTER.zip

Reactive References

- section-21-3-STARTER.zip

Advantages of the Composition API

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Router Hooks

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Vuex Hooks

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Verifying Reactivity

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