Vue.js & Laravel Course Outline
Total Class No: 36

Class #1	Instructor`s Signature:	Date:

- ➢ What is JavaScript?
- ➢ Setting Up the Development.
- ➢ JavaScript in Browsers.
- ➢ Separation of concerns.
- ➢ JavaScript in Node.

Class #2	Instructor`s Signature:	Date:

- ➢ The Browser Console.
- ➢ Variables, Constants & Comments.
- ➢ Data Types at a Glance.
- ➢ String.
- ➢ Common String Methods.
- ➢ Template String.
- ➢ Null & Undefined.
- ➢ Type Conversion.
- ➢ Local vs. Global Scope.
- ➢ Let vs. Var.

Class #3	Instructor`s Signature:	Date:

- ➢ JavaScript Operators.
- ➢ Arithmetic Operators.
- ➢ Assignment Operators.
- ➢ Comparison Operators.
- ➢ Equality Operators.
- ➢ Ternary Operators.
- ➢ Logical Operators.
- ➢ Bit Wise Operators.
- ➢ Operator Precedence

Class #4	Instructor`s Signature:	Date:

- ➢ If…else conditional statements.
- ➢ Switch…case.
- ➢ For Loop.
- ➢ While Loop.
- ➢ Do…While Loop.
- ➢ Infinite Loops.
- ➢ For…In Loop.
- ➢ For…of Loop.
- ➢ Break and Continue

Class #5	Instructor`s Signature:	Date:

- ➢ What are functions?
- ➢ Functions Declarations vs Expression.
- ➢ Hoisting.
- ➢ Arguments.
- ➢ The Rest Operator.
- ➢ Default Parameters.
- ➢ Try and Catch.

Class #6	Instructor`s Signature:	Date:

- ➢ Arrays Basics.
- ➢ Adding, Removing and Finding Elements.
- ➢ Emptying an Array.
- ➢ Combining and Slicing Arrays.
- ➢ The Spread Operators.
- ➢ Iterating an Array.
- ➢ Joining Arrays.
- ➢ Sorting Arrays.
- ➢ Filtering an Array.
- ➢ Mapping an Array.
- ➢ Reducing an Array

Class #7	Instructor`s Signature:	Date:

- ➢ Objects Basics.
- ➢ Factory Functions.
- ➢ Constructor Functions.
- ➢ Functions are Objects.
- ➢ Value vs. Reference Types
- ➢ Cloning an Object,
- ➢ Math, String and Date Objects.

Class #8	Instructor`s Signature:	Date:

- ➢ Interacting with the Browser.
- ➢ The Query Selector.
- ➢ Others Ways to Query the DOM.
- ➢ Adding and Changing Page Content.
- ➢ Getting & Setting Attributes.
- ➢ Changing CSS Styles.
- ➢ Adding & Removing Classes.
- ➢ Event Basics(click events)
- ➢ Event Bubbling (and delegation)
- ➢ More DOM Events.

Class #9	Instructor`s Signature:	Date:

- ➢ Events inside Forms.
- ➢ Submit Events.
- ➢ Keyboard Events.
- ➢ Regular Expressions.
- ➢ Basic Form Validation.

Class #10	Instructor`s Signature:	Date:

Review Class problem & Solution.

Class #11	Instructor`s Signature:	Date:

- ➢ What is Asynchronous JavaScript?
- ➢ What are HTTP Requests?
- ➢ Making HTTP Requests (XHR).
- ➢ Response Status.
- ➢ Callback Functions.
- ➢ JSON Data.
- ➢ Promise Basics.
- ➢ Chaining Promises.
- ➢ The Fetch API.
- ➢ Async & Await.
- ➢ Throwing and Catching Errors.

Class #12	Instructor`s Signature:	Date:

- ➢ What is Local Storage?
- ➢ Storing and Getting Data.
- ➢ Deleting Storage Data.
- ➢ Stringifying & Parsing Data.

Class #13	Instructor`s Signature:	Date:

- ➢ What is OOP?
- ➢ ES6 Classes.
- ➢ Class Constructors.
- ➢ Class Methods & Method Chaining.
- ➢ Static Methods.
- ➢ The 'this' Keyword.
- ➢ Arrow Functions.
- ➢ Getters and Setters.
- ➢ Class Inheritance.
- ➢ Prototype Model.
- ➢ Prototypal inheritance.
- ➢ Built-in Objects.
- ➢ Export and Imports.

Class #14	Instructor`s Signature:	Date:

- ➢ Modules.
- ➢ ES6 Modules.
- ➢ Common JS Modules.
- ➢ ES6 Tooling.
- ➢ Babel.
- ➢ Webpack.

Class #15	Instructor`s Signature:	Date:

- ➢ What is Vue.js?
- ➢ The Vue Instance.
- ➢ Accessing Data in the Vue Instance.
- ➢ Data Binding.
- ➢ Two-way Data Binding.
- ➢ Binding to Attributes.
- ➢ Understanding and using directives.
- ➢ Saving Time with Shorthand.
- ➢ Vue developer tool in action.

Class #16	Instructor`s Signature:	Date:

- ➢ Introduction to event.
- ➢ The Event Object.
- ➢ Getting Events Data from Event Object.
- ➢ Passing argument to event listeners.
- ➢ Keyboard Events.
- ➢ Modifying an Event.
- ➢ Disable Re-Rendering with v-once.
- ➢ Hiding elements until the Vue instance is ready.
- ➢ How to Output Raw HTML.
- ➢ Methods.
- ➢ Computed properties.
- ➢ Watchers.
- ➢ Life-cycle Hooks

Class #17	Instructor`s Signature:	Date:

- ➢ Conditional Output with v-if & v-show.
- ➢ Looping with v-for.
- ➢ Accessing the loop index
- ➢ Looping through a list of numbers.
- ➢ Looping through Objects.
- ➢ Dynamic Styling with CSS Classes.
- ➢ Dynamic Styling with CSS Classes - Using Objects.
- ➢ Dynamic Styling with CSS Classes - Using Names.
- ➢ Styling Elements with the Array Syntax.

Class #18	Instructor`s Signature:	Date:

- ➢ The Vue CLI and UI.
- ➢ The data Function.
- ➢ Creating a Component.
- ➢ Component naming conventions.
- ➢ Register Components Locally and Globally.
- ➢ Nesting Components.
- ➢ Scoped CSS.

Class #19	Instructor`s Signature:	Date:

- ➢ Passing Data with Props.
- ➢ Naming Props.
- ➢ Validating Props.
- ➢ Custom Events.
- ➢ Using an Event Bus for Communication.
- ➢ Passing Content with Slots.
- ➢ Using Multiple Slots (Named Slots)
- ➢ Default Slot.

Class #20	Instructor`s Signature:	Date:

- ➢ Basic input Form Binding.
- ➢ Modifying User input with input Modifiers.

- ➢ Binding Text area and Saving Line Breaks.
- ➢ Using Checkboxes and Saving Data in Arrays.
- ➢ Using Radio Buttons.
- ➢ Handling Dropdowns with select and option.
- ➢ Submitting a form.

Class #21	Instructor`s Signature:	Date:

- ➢ Creating a Local Filter.
- ➢ Global Filters and how to chain Multiple Filters.
- ➢ Understanding Mixins.
- ➢ Creating and Using Mixins

Class #22	Instructor`s Signature:	Date:

- ➢ Introduction to transitions and animations.
- ➢ Understanding single element Transitions.
- ➢ Transition with CSS classes.
- ➢ Implementing our first transition.
- ➢ Specifying transition names.
- ➢ Specifying custom transition classes.
- ➢ Implementing a custom CSS animation.

Class #23	Instructor`s Signature:	Date:

- ➢ Introduction to Single Page Applications (SPA).
- ➢ Installing vue-router.
- ➢ Enabling the router.
- ➢ Rendering routed components.
- ➢ Changing the router mode.
- ➢ Named routes.
- ➢ Retrieving route parameters.
- ➢ Reacting to parameters changes.
- ➢ Using route props.

Class #24	Instructor`s Signature:	Date:

- ➢ Navigating programmatically.
- ➢ Navigating browser history stack.
- ➢ Redirecting.
- ➢ Aliases.
- ➢ Nested routes.
- ➢ Query parameters.
- ➢ Hash fragment.
- ➢ Controlling the scroll behavior.
- ➢ Route transitions.
- ➢ Route guards.
- ➢ Component guards.
- ➢ Global guard meta field.

Class #25	Instructor`s Signature:	Date:

- ➢ Introduction to Vuex.
- ➢ Why Vuex is needed?
- ➢ Installing Vuex.
- ➢ Setting up a store.
- ➢ Accessing a store state.
- ➢ Changing state.
- ➢ Introduction to getters.
- ➢ Implementing a getter.
- ➢ Accessing other getters.
- ➢ Passing arguments to getters.
- ➢ Mapping getters to computed properties.

Class #26	Instructor`s Signature:	Date:

- ➢ Introduction to mutations.
- ➢ Implementing a mutation.
- ➢ Committing mutations with payloads.
- ➢ Mapping mutations to methods.
- ➢ Using constants for mutation types.

- ➢ Mutations must be synchronous.
- ➢ Introduction to action.
- ➢ Implementing an action.
- ➢ The context argument.

Class #27	Instructor`s Signature:	Date:

- ➢ Accessing getters within actions.
- ➢ Mapping actions to methods.
- ➢ Introduction to modules.
- ➢ Implementing modules.
- ➢ Accessing root state from getters.
- ➢ Accessing root state from actions
- ➢ Introduction to namespaces.
- ➢ Adding Namespaces.
- ➢ Dispatching root actions and committing root mutations.

Class #27	Instructor`s Signature:	Date:

- ➢ Installing Axios.
- ➢ Sending a POST request.
- ➢ Sending a GET request.
- ➢ Setting Global Request Configurations.

Class #27-36	Instructor`s Signature:	Date:

- ➢ What is API?
- ➢ Creating models and its relationships using eloquent.
- ➢ Creating the database structure using migrations.
- ➢ Creating the Laravel factories for database seeding
- ➢ Handling errors and exceptions with the Laravel handler
- ➢ Transforming responses with Laravel Resources and Collection.
- ➢ Creating API for Blog & ecommerce project.
- ➢ Complete blog and ecommerce project using Vue.js.