Introduction to Vue.js

Course Summary

Description

This course provides an introduction to Vue.js.

Objectives

After taking this course, students will be able to:
- Understand the principles of modern UI development
- Learning the fundamentals of UI development with Vue.js
- Explore the concepts of Component-Driven development
- Build a complete Vue.js application

Topics

- Introduction
- Templates and Data
- Observing Data
- Styling
- Components Overview

- Component Props
- Component Events
- Component Slots
- Unit Testing
- Production Deployment

Audience

This course is designed for students wanting to learn the fundamentals of UI development with Vue.js.

Prerequisites

There are no prerequisites for this course.

Duration

Two days

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Course Outline

I. Introduction
A. What is Vue.js?
B. Benefits of Progressive Frameworks
C. Integrating with Modern Tooling
D. Rendering and Virtual DOM
E. Configuring Vue.js

II. Templates and Data
A. Creating an Instance of Vue.js
B. Data Binding
C. Conditionals and Loops
D. Capturing Data in Forms
E. Handling Events

III. Observing Data
A. Watched Properties
B. Computed Properties

IV. Styling
A. Classes
B. Inline Styles

V. Components Overview
A. What are Components?
B. Registration

VI. Component Props
A. What are Props?
B. Prop Name Casing
C. Dynamic Props
D. One-Way Data Flow
E. Validating Props

VII. Component Events
A. What are Events?
B. Passing Event Handlers
C. Communicating with the Parent

VIII. Component Slots
A. Single Slot
B. Named Slot
C. Scoped Slots

IX. Unit Testing
A. JavaScript Unit Testing with Karma
B. Writing Unit Tests
C. Coding Testable Components
D. Asynchronous Testing

X. Production Deployment
A. Turning on Production Mode
B. Packaging JavaScript, CSS and HTML
C. Pre-compiling Templates