

Mastering Svelte

1. Introduction to Svelte

- What is Svelte?
- Tools & Extensions
- Svelte vs Svelte Kit

2. Getting started with Svelte

- Svelte Components Basic Structure
- Reactive Statements
- Component Props

Exercise

- A Simple Counter Component

3. Svelte Components

- Component Children
- Style Directives
- Named Directives
- Slot Props
- Input Value
- Component Life-Cycle Functions
- The **tick** lifecycle

4. Stores

- Writable Stores
- Callback functions
- Readable Stores
- Custom Stores
- Derived Stores
- Tweened Writable Stores
- Spring Writable Stores

5. The Context API

- Introduction to the Context API
- Context to Pass Data to Children
- Context and Stores
- Handling Form Validation
- Using Slots & Slot Props
- Layer and Rect Components

6. Svelte Kit: Form Actions

- Form Actions
- Named Form Actions
- Extending Forms with JavaScript

- Forms GET Method
- Enhance Actions

Exercise: Validation Errors using the Enhance Action

7. Svelte Kit: Pages & Layout

- Introduction to Svelte Kit
- Creating Routs
- The `$lib` Folder Alias & Custom Aliases
- Navigate Functions
- Rest Parameter
- Optional Parameters
- Parameters Matcher
- Layouts Groups

8. Svelte Kit: Loading data

- Shared Load Function
- Server Only Load Functions
- Layout Load Functions
- Type Safety with Generated Types
- Server-only Load Functions
- Passing Data
- Controlling Routes Response and Creating Endpoints
- Using Fetch and Svelte Kit

Exercise:

- Creating a Login Page and Endpoint
- Using cookies to Login and Logout
- Re-Running all Load functions
- Re-running Specific Load Functions

9. Svelte Kit: Hooks

- Handle Hook
- Locals Object
- Handle Fetch Hook
- Handling Expected Errors
- Using Environment Variables.

10. Svelte Kit: Deployment

- Adapter Overview
- Building and Running our App with the Node Adapter
- Deploying to Heroku