

Week 3: Introduction and Instructions

In **Week 3: Introduction to JSX**, you'll begin by reviewing some tips and tricks in JavaScript. Next, you'll create a form by walking through several examples. You'll start by creating a very simple form using HTML. Then, you'll create an unmanaged form with React, whose functionality is similar to the HTML form's. After that, you'll take advantage of the ReactDOM by creating a managed form in React, which you can also validate. Finally, you'll learn a more streamlined approach to create a managed form in React by using the Formik library and also a React application.

Learning Outcomes

Course Learning Outcomes Addressed

- Build, test, and deploy a React application
- Explain key React concepts such as JSX and Hooks

By the end of this week, you will be able to:

1. Identify hoisted variables and functions
2. Identify the functionality of lines of code within `array.filter()` and `array.reduce()` callback functions
3. Discuss three things you've found surprising about JavaScript
4. Set up a React project
5. Identify the core components of a React application
6. Identify accurate JSX syntax
7. Build a form with HTML
8. Build a form with React
9. Create and validate a form with Formik
10. Identify the steps involved in client-server communication

Activities

Key Activities

- Knowledge Checks
 - Knowledge Check 13.1
 - Knowledge Check 13.2
 - Knowledge Check 13.3 - Where Does The Form Data Go?
- Discussions
 - What Have You Found Surprising About JavaScript?
 - Coding Challenge: Experimenting With Formik
- Coding Activities
 - Add A React Template To Your Project
 - Build An HTML Form
 - Managed And Unmanaged Forms With React
- Coding Assignments
 - Build A Formik Form

Self-Study Activities

- JavaScript Tips And Tricks: You can use [JavaScript Tutor \(Links to an external site.\)](#) to practice
- Introduction To Babel
- Introduction To JSX
- HTML Forms
- React Form - Unmanaged and Managed
- Formik Form