

Course: Web Page Development

Instructor: Amol Rama

Prerequisites: GitHub Account, Node.JS downloaded to a computer (14 or higher)

Times: Weekdays from 5 to 7 P. M.

<p>Day 1: Introduction to the Web</p> <ul style="list-style-type: none">➤ How does the internet work?➤ How do websites work?➤ Who created the internet?➤ How is data "secured"?	<p>Day 2: Introduction to Raw HTML</p> <ul style="list-style-type: none">➤ What is HTML? How do browsers use it?➤ How do I render HTML?➤ How can I write a website with HTML?
<p>Day 3: Introduction to CSS</p> <ul style="list-style-type: none">➤ How can I make my web page look good?➤ Different types of displays and properties➤ Introduction to classes and ids➤ Inline styling	<p>Day 4: Introduction to JS</p> <ul style="list-style-type: none">➤ How can I let users interact with my webpage?➤ Basic programming ideas in JS:<ul style="list-style-type: none">○ Variables (let, var, const)○ Loops (for, while)○ Conditionals (if, else, try)○ Arrays and Objects○ Promises (async/await)
<p>Day 5: Interacting with the DOM</p> <ul style="list-style-type: none">➤ How can I actually use JS in my HTML document?➤ How can I change properties based on user input?➤ How can I use query selectors?	<p>Day 6: Introduction to Node.JS</p> <ul style="list-style-type: none">➤ How can I run JS without HTML?➤ What command line tools can I use?➤ What's the console?➤ How can I call another file?
<p>Day 7: Exploring the React Demo</p> <ul style="list-style-type: none">➤ What does the React example	<p>Day 8: Creating a Component</p> <ul style="list-style-type: none">➤ If I'm making a connect-4 game, I

<p>project do?</p> <ul style="list-style-type: none"> ➤ How do changes I make reflect in real time with the preview? ➤ How can I put this on an "actual" website? 	<p>want to make 42 holes. How can I make one?</p> <ul style="list-style-type: none"> ➤ Using classes and extending React's Component Class. ➤ How can I use a component in a webpage?
<p>Day 9: Re-using Components</p> <ul style="list-style-type: none"> ➤ Is there a better way to make 42 holes rather than copy paste? ➤ How can I use loops and JS inside of my "HTML"? ➤ How can I align everything? 	<p>Day 10: Passing Props to a Component</p> <ul style="list-style-type: none"> ➤ How can I make a hole be red or yellow? ➤ How can I tell a hole its position? ➤ How can I pass different props to things in a for loop (i.e. how can I iterate over arrays, rather than doing a plain loop)?
<p>Day 11: Combining Components into Larger Components</p> <ul style="list-style-type: none"> ➤ How can I combine components in different ways? ➤ How can I combine columns and buttons to make a Connect-4 grid? 	<p>Day 12: States and the React Lifecycle</p> <ul style="list-style-type: none"> ➤ How can I get user input in React? ➤ What even is a state and how does it differ from other variables? ➤ What's a componentDidMount, componentWillUnmount, and why do we use a render function? ➤ Why am I getting an infinite loop?
<p>Day 13: Callbacks, Part 1</p> <ul style="list-style-type: none"> ➤ How can I display something when a button is pressed? ➤ How can I change my main App's state when a button is pressed? 	<p>Day 14: Callbacks, Part 2</p> <ul style="list-style-type: none"> ➤ How can I fill the topmost hole in a column when the corresponding button is pressed? ➤ How can I make the turn switch to the next player (or color) when a button is pressed?
<p>Day 15: Introduction to React Router</p> <ul style="list-style-type: none"> ➤ This is all good, but can I make another website, say /play-against-computer? ➤ How to use React Router and explanation of SPAs. 	<p>Day 16: Styling</p> <ul style="list-style-type: none"> ➤ How can I style my components dynamically? ➤ What libraries are there to help me style? ➤ What icons can I use?
<p>Day 17: React without JSX</p> <ul style="list-style-type: none"> ➤ Why do we use a .jsx extension? 	<p>Day 18: User Input</p> <ul style="list-style-type: none"> ➤ How can I get users to input text

<p>What if I wanted to use it in a JS file?</p> <ul style="list-style-type: none">➤ How does React make sure that text such as <code><div></div></code> doesn't render as a tag?	<p>and how can I store them?</p> <ul style="list-style-type: none">➤ What information can I get from an event?➤ What are uncontrolled and controlled components? Why am I getting a warning about this?
<p>Day 19: Creating a Website, Part 1</p> <ul style="list-style-type: none">➤	<p>Day 20: Creating a Website, Part 1</p> <ul style="list-style-type: none">➤