



# Web Frontend with React: Concepts

## Preface

This reading material is to explain to you how to best learn React in this part of the course. Please read it thoroughly before you move on to the next lecture.

## Learning Approach

In this part, we are going to learn React by going through a series of concepts one by one. In total, there are 12 concepts that we are going to cover in this part. These concepts are closely following the official documentation of React for easiest learning.

In each of the videos, we are going to explain the concept by going through a simple example. You should focus on understanding the concept in this part. You might not see how these concepts are linking together at the moment, but it's okay. We will go through a complete project example in the next part.

Some of the concepts might be difficult to understand, in that case, you can refer to the step-by-step below in clearing up your confusions:

1. Try to replicate the example in class, and make changes. See how your changes would impact the result.
2. Reading the relevant official documentations (Refer to next page for a reference)
3. Discuss with your classmates in the debriefing sessions
4. Book a mentoring session and have our mentor to explain to you.

**Remember that the focus here is not speed of completion, but understanding.**

## Assignments

In this React Basics module, we are not providing step-by-step instructions for assignments anymore. Instead, we have demonstrated how to work on the assignment in the lecture video.

You should digest the code in the lecture video and re-create the project on your own instead of just copying. **We don't require you to submit code that's 100% the same as the video.** As long as your code could fulfill all the requirements we specified in the assignment instructions, then you would be rewarded with a full mark.

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## Official Documentation/Reading

Topic	Link
Getting Started with React	<a href="https://reactjs.org/docs/getting-started.html">https://reactjs.org/docs/getting-started.html</a>
Hello World	<a href="https://reactjs.org/docs/hello-world.html">https://reactjs.org/docs/hello-world.html</a>
JSX	<a href="https://reactjs.org/docs/introducing-jsx.html">https://reactjs.org/docs/introducing-jsx.html</a>
Render Elements	<a href="https://reactjs.org/docs/rendering-elements.html">https://reactjs.org/docs/rendering-elements.html</a>
Components & Props	<a href="https://reactjs.org/docs/components-and-props.html">https://reactjs.org/docs/components-and-props.html</a>
States & Lifecycle	<a href="https://reactjs.org/docs/state-and-lifecycle.html">https://reactjs.org/docs/state-and-lifecycle.html</a>
Event Handling	<a href="https://reactjs.org/docs/handling-events.html">https://reactjs.org/docs/handling-events.html</a>
Conditional Rendering	<a href="https://reactjs.org/docs/conditional-rendering.html">https://reactjs.org/docs/conditional-rendering.html</a>
Lists & Keys	<a href="https://reactjs.org/docs/lists-and-keys.html">https://reactjs.org/docs/lists-and-keys.html</a>
Forms Handling	<a href="https://reactjs.org/docs/forms.html">https://reactjs.org/docs/forms.html</a>
React Thinking	<a href="https://reactjs.org/docs/lifting-state-up.html">https://reactjs.org/docs/lifting-state-up.html</a>
Composition & Inheritance	<a href="https://reactjs.org/docs/composition-vs-inheritance.html">https://reactjs.org/docs/composition-vs-inheritance.html</a>

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