

Introduction to React and React Functional Components Week:

Todo List

1. Master - Introduction to React and React Components (Function Based Components)

By the end of this week, you should **MASTER** these topics:

→ Introduction to React

- ◆ React.js: what is it?
- ◆ Why do we need to learn React?
- ◆ MVC architecture and why React is considered as the V of MVC
- ◆ How does React work and what makes it fast?
- ◆ React DOM (Virtual DOM)
- ◆ React elements: generating React elements using Vanilla JavaScript
- ◆ Setting up your React development environment by Running the “npm create vite@latest” command
- ◆ Understanding the file structure of any React app
- ◆ JSX: what is it and why do we need JSX?
- ◆ React elements: Generating React elements using JSX

→ React Components (Function Based Components)

- ◆ React components: meaning and purpose
- ◆ React component types: functional and class components
- ◆ Functional components: steps to create any function based component

By the end of last week, you should have already watched the class videos on “**Introduction to React**” and “**React Components (Functional Components)**”. You should have also listed out all of your questions.

1.1. Start by working on “React and React Functional Component” practice questions (5 hrs)

- Instructions on how to complete the questions is found here:
 - [Link to homework](#)
- Try the homework on your own first and discuss it with your groupmates
- List out the parts you don’t understand and ask your groupmates when you meet in groups

1.2. Complete the Working with “Introduction to React” and “React Components (Functional Components)” checklists (2 hrs)

- [Checklist Introduction to React](#)
- [Checklist React components \(functional components\)](#)
- Mark the ones you understood as complete, and list out the parts you didn't understand for further discussion

1.3. Before you meet your instructors in the group discussions

- Meet with your groupmates before the group sessions with Evangadi instructors. Please take the lead in sending out Zoom links and inviting everyone for discussion
- Try to discuss the questions you have with your groupmates

1.4. Attend the 2 group meeting sessions with your instructors (4 hrs)

- Discuss the remaining questions you have prepared
- Turn your camera on, share your screen and participate

2. Prepare for Next week - “React components (class components) and props” and “Props - Demo”

2.1. Watch the “React components (class components) and props” videos (4 hrs).

- DO NOT just watch the video. Make sure you are pausing the video and practicing on your computer
- Read the lecture note side by side
- Prepare your questions

2.2. Watch the “Props - Demo” videos (3 hrs)

- DO NOT just watch the video. Make sure you are pausing the video and practicing on your computer
- Read the lecture note side by side
- Prepare your questions

2.3. Attend the “React components (class components) and props” and “Props - Demo” live lectures (4hrs).

- Read the lecture note side by side
- Prepare to ask your questions