React Basics

What is a component?

Class or function that returns react element(JSX). Building block of react app(reusable and modular UI elements)

What is the structure of a functional component?

Is a simple js function that returns JSX to describe UI.  
import React from ‘react’; function myfun(props) {return }

What is special about the App.tsx file?

Its where the main structure of an app is defined and  
where other components are rendered

What is the virtual DOM?  
is used to improve performance and efficiency when updating UI

Light weight virtual DOM in memory 🡪 when a component’s state change React re-renders and creates a new virtual DOM 🡪 react compares new vs former virtual DOM 🡪 updates the actual DOM with changes

React SPA

What is an SPA? Web app built with react that operates as a single page/ content changes dynamically/

What are the advantages and disadvantages?

Advs faster user experience, smooth transition, reduced server load and code reusability

Disadvs initial load time (longer), security concern , browser history mgt and resource consumption

What is routing? The process of defining navigation paths and determining what content to display based on current URL

How is a new route set up?

Import

React state management

What are props?

What is state?

Are props mutable? Is state mutable?

What is context? Why is it used?

How is data sent from a parent component to a child component?

How is data sent from a child component to a parent component (name of the technique & how it’s done)

React rendering

What is JSX?

What does it mean when there are curly braces { } in the return statement of a component?

How can you display a variable on your site in React (one-way binding)?

What is conditional rendering?

How do I display an array of items as individual components in React?

What are lists & keys in react?

When does a component re-render?

Data & Event binding

How is data binding done in React (one way binding)?

How is event binding done in React?

How can you retrieve input box data in React?

React hooks

What are hooks?

What does useEffect do?

What does setState do?