## Beginner's Guide to React useRef

#### What is useRef?

useRef is a React Hook that allows you to create a reference to a DOM element or store mutable values that do not trigger a re-render when updated.

Syntax:

const myRef = useRef(initialValue);

'myRef.current' will hold the value or the DOM node.

### Why do we use useRef?

- To directly interact with DOM elements (e.g., focusing input fields)
- To persist values across renders without causing re-renders
- To store things like timer IDs, previous values, or any mutable value

#### Where do we use useRef in real time?

- Auto-focus input fields
- Scroll to a particular section on click
- Play/pause audio or video
- Store timer IDs or previous state values
- Measure dimensions of DOM elements

#### **Example 1: Auto-focus input**

```
import React, { useRef, useEffect } from 'react';
export default function App() {
  const inputRef = useRef(null);
  useEffect(() => {
```

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```
inputRef.current.focus();
 }, []);
 return <input ref={inputRef} placeholder='Type here...' />;
}
Example 2: Scroll to section
import React, { useRef } from 'react';
export default function App() {
 const sectionRef = useRef(null);
 const scrollToSection = () => {
  sectionRef.current.scrollIntoView({ behavior: 'smooth' });
 };
 return (
  <>
   <button onClick={scrollToSection}>Scroll to Section</button>
   <div style={{ height: '800px' }}></div>
   <div ref={sectionRef}>Hello Section </div>
  </>
 );
}
Example 3: Store timer ID
import React, { useRef } from 'react';
export default function App() {
```

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```
const timerRef = useRef(null);
 const startTimer = () => {
  timerRef.current = setInterval(() => {
   console.log('Tick');
  }, 1000);
 };
 const stopTimer = () => {
  clearInterval(timerRef.current);
 };
 return (
  <>
   <button onClick={startTimer}>Start
   <button onClick={stopTimer}>Stop</button>
  </>
 );
}
```

### **Interview Answer Tip**

useRef is a hook in React that lets us reference DOM elements directly or store values that persist across renders without triggering a re-render. Its commonly used for focusing inputs, scrolling to elements, or keeping values like timers. For example, we can auto-focus an input using ref.current.focus() in useEffect.