4. onClick – Practice Tasks

1. Add an onClick handler to a button that logs “Clicked!” to the console.

export default function LogButton() {

return <button onClick={() => console.log("Clicked!")}>Click me</button>;

}

2. Pass an argument to a function in an onClick event to display it in an alert.

export default function AlertButton() {

const show = (msg) => alert(msg);

return <button onClick={() => show("Hello from onClick!")}>Show Alert</button>;

}

3. Create an image gallery where clicking a thumbnail changes the main image.

import { useState } from "react";

export default function ImageGallery() {

const images = [

"img1",

"img2",

"img3",

];

const [current, setCurrent] = useState(images[0]);

return (

<div>

<img src={current} alt="main" style={{ width: 600, height: 300, objectFit: "cover" }} />

<div style={{ marginTop: 8, display: "flex", gap: 8 }}>

{images.map((src) => (

<img

key={src}

src={src}

alt="thumb"

onClick={() => setCurrent(src)}

style={{ width: 120, height: 60, objectFit: "cover", cursor: "pointer", border: current === src ? "2px solid #333" : "2px solid transparent" }}

/>

))}

</div>

</div>

);

}

4. Build a voting button where each click increases the vote count.

import { useState } from "react";

export default function VoteButton() {

const [votes, setVotes] = useState(0);

return <button onClick={() => setVotes(v => v + 1)}>👍 {votes}</button>;

}

5. Make a paragraph that changes color when clicked.

import { useState } from "react";

export default function ColorParagraph() {

const [color, setColor] = useState("black");

return (

<p style={{ color, cursor: "pointer" }} onClick={() => setColor(c => (c === "black" ? "tomato" : "black"))}>

Click me to change my color

</p>

);

}

6. Create a “Show/Hide” button for a paragraph using an onClick handler.

import { useState } from "react";

export default function ShowHide() {

const [show, setShow] = useState(true);

return (

<div>

<button onClick={() => setShow(s => !s)}>{show ? "Hide" : "Show"}</button>

{show && <p>Now you see me 👀</p>}

</div>

);

}

7. Build a quiz button that checks if the selected answer is correct when clicked.

import { useState } from "react";

export default function Quiz() {

const options = ["React", "Angular", "Vue"];

const correct = "React";

const [selected, setSelected] = useState("");

const check = () => {

if (!selected) return alert("Pick an option!");

alert(selected === correct ? "✅ Correct!" : "❌ Try again");

};

return (

<div>

{options.map(o => (

<label key={o} style={{ marginRight: 12 }}>

<input type="radio" name="q" value={o} onChange={() => setSelected(o)} /> {o}

</label>

))}

<div><button onClick={check}>Check Answer</button></div>

</div>

);

}

8. Create a button that adds a new item to a list on click.

import { useState } from "react";

export default function AddToList() {

const [items, setItems] = useState(["One", "Two"]);

const add = () => setItems(arr => [...arr, `Item ${arr.length + 1}`]);

return (

<>

<button onClick={add}>Add Item</button>

<ul>{items.map((it, i) => <li key={i}>{it}</li>)}</ul>

</>

);

}

9. Make a square <div> that changes its background color each time it’s clicked.

import { useState } from "react";

export default function ColorSquare() {

const colors = ["#e57373", "#64b5f6", "#81c784", "#ffb74d"];

const [i, setI] = useState(0);

return (

<div

onClick={() => setI((i + 1) % colors.length)}

style={{ width: 120, height: 120, background: colors[i], cursor: "pointer" }}

title="Click me"

/>

);

}

10. Build a “Reset” button that clears an input field.

import { useState } from "react";

export default function ResetInput() {

const [text, setText] = useState("");

return (

<div>

<input value={text} onChange={e => setText(e.target.value)} placeholder="Type something" />

<button onClick={() => setText("")}>Reset</button>

</div>

);

}

5. Components – Practice Tasks

1. Create a functional component Header that displays a title.

export function Header({ title }) {

return <h1>{title}</h1>;

}

2. Create a class component Footer that displays the current year.

import React from "react";

export class Footer extends React.Component {

render() {

return <footer>© {new Date().getFullYear()}</footer>;

}}

3. Make a Sidebar component and render it alongside a MainContent component.

export function Sidebar() {

return <aside style={{ width: 200, background: "#f5f5f5", padding: 12 }}>Sidebar</aside>;

}

export function MainContent() {

return <main style={{ flex: 1, padding: 12 }}>Main Content</main>;

}

export default function Layout() {

return <div style={{ display: "flex", gap: 12 }}><Sidebar /><MainContent /></div>;

}

4. Create a Button component and reuse it in three different places with different labels.

export function Button({ label, onClick }) {

return <button onClick={onClick} style={{ marginRight: 8 }}>{label}</button>;

}

export default function ButtonRow() {

return (

<div>

<Button label="Save" onClick={() => console.log("Save")} />

<Button label="Delete" onClick={() => console.log("Delete")} />

<Button label="Share" onClick={() => console.log("Share")} />

</div>

);

}

5. Build a ProfileCard component that displays profile picture, name, and description.

export default function ProfileCard({ pic, name, about }) {

return (

<div style={{ border: "1px solid #ddd", borderRadius: 12, padding: 12, maxWidth: 300 }}>

<img src={pic} alt={name} style={{ width: "100%", borderRadius: 12, objectFit: "cover" }} />

<h3>{name}</h3>

<p>{about}</p>

</div>

);

}

6. Create a Weather component that takes temperature and condition as props.

export default function Weather({ temperature, condition }) {

return <p>Weather: {temperature}°C — {condition}</p>;

}

7. Build a NavBar component with links to Home, About, and Contact.

export default function NavBar() {

const link = { textDecoration: "none", marginRight: 12 };

return (

<nav style={{ padding: 12, borderBottom: "1px solid #eee" }}>

<a href="#home" style={link}>Home</a>

<a href="#about" style={link}>About</a>

<a href="#contact" style={link}>Contact</a>

</nav>

);

}

8. Create a Counter component with + and – buttons, and render it inside another component.

import { useState } from "react";

function Counter() {

const [n, setN] = useState(0);

return (

<div>

<button onClick={() => setN(n - 1)}>-</button>

<span style={{ margin: "0 8px" }}>{n}</span>

<button onClick={() => setN(n + 1)}>+</button>

</div>

);

}

export default function Dashboard() {

return (

<section>

<h2>Dashboard</h2>

<Counter />

</section>

);

}

9. Make a Notification component that displays a message and an “X” button to close it.

import { useState } from "react";

export default function Notification({ message = "All good!" }) {

const [open, setOpen] = useState(true);

if (!open) return null;

return (

<div style={{ padding: 10, background: "#e3f2fd", border: "1px solid #90caf9", borderRadius: 8, display: "flex", justifyContent: "space-between", alignItems: "center", maxWidth: 400 }}>

<span>{message}</span>

<button onClick={() => setOpen(false)} aria-label="Close">✕</button>

</div>

);

}

10. Build a Post component that contains PostHeader, PostBody, and PostFooter as child

components.

export function PostHeader({ title, author }) {

return <header><h3>{title}</h3><small>by {author}</small></header>;

}

export function PostBody({ text }) {

return <p>{text}</p>;

}

export function PostFooter({ likes }) {

return <footer><small> {likes} likes</small></footer>;

}

export default function Post({ title, author, text, likes = 0 }) {

return (

<article style={{ border: "1px solid #ddd", padding: 12, borderRadius: 12, maxWidth: 520 }}>

<PostHeader title={title} author={author} />

<PostBody text={text} />

<PostFooter likes={likes} />

</article>

);

}