3. Create a Complex JSX Element:

- *Extend the portfolio header to include a `div` with:*
- *A profile picture.*
- *Social media icons (LinkedIn, GitHub) as clickable links.*

Step: 1 **Header.jsx** *(React Component)*

```jsx
// src/components/Header.jsx
import React from 'react';
import './Header.css';  // Import the CSS for Header

const Header = () => {
 return (
   <header>
    {/* Display the main name */}
    <h1>Het Dabhi</h1>

    {/* Display the tagline */}
    <p>Aspiring Software Engineer</p>

    {/* Profile section with image and social media links */}
    <div className="profile-section">
     {/* Profile picture */}
     <img
       src="/profile-picture.jpg"
       alt="Profile"
       className="profile-img"
       width="150"
       height="150"
     />
     {/* Social media links */}
     <div className="social-links">
      <a
        href="https://www.linkedin.com/in/yourprofile"
        target="_blank"
        rel="noopener noreferrer"
        className="social-link linkedin"
      >
       LinkedIn
      </a>
      <a
```

```
        href="https://github.com/yourusername"
        target="_blank"
        rel="noopener noreferrer"
        className="social-link github"
      >
        GitHub
      </a>
     </div>
    </div>

    {/* Navigation links */}
    <nav>
     <ul>
      <li><a href="#about">About</a></li>
      <li><a href="#projects">Projects</a></li>
      <li><a href="#contact">Contact</a></li>
     </ul>
    </nav>
   </header>
  );
};

export default Header;
```

Step: 2 **Header.css** *(CSS for Styling)*

```
/* src/components/Header.css */

header {
  text-align: center;
  padding: 20px;
  background-color: #f8f9fa; /* Light background for the header */
  border-bottom: 2px solid #ddd;
}

h1 {
  font-size: 2.5rem;
  margin-bottom: 10px;
}

p {
  font-size: 1.2rem;
  color: #555;
  margin-bottom: 20px;
}

.profile-section {
```

```css
  display: flex;
  justify-content: center;
  align-items: center;
  margin-bottom: 20px;
}

.profile-img {
  border-radius: 50%;
  margin-right: 20px;
  border: 3px solid #ddd; /* Optional: adds a border to the profile picture */
}

.social-links {
  display: flex;
  gap: 15px;
  justify-content: center;
}

.social-link {
  text-decoration: none;
  font-weight: bold;
  padding: 10px 20px;
  border-radius: 5px;
  color: white;
  transition: background-color 0.3s ease;
}

.social-link.linkedin {
  background-color: #0077b5;
}

.social-link.github {
  background-color: #333;
}

.social-link:hover {
  opacity: 0.8;
}

nav ul {
  list-style: none;
  padding: 0;
  display: flex;
  justify-content: center;
  gap: 20px;
}

nav ul li {
```

```css
  font-size: 1.1rem;
}

nav ul li a {
 text-decoration: none;
 color: #555;
}

nav ul li a:hover {
 color: #0077b5;
}
```

Step: 3 App.jsx *(Main App Component Rendering the Header)*

```jsx
// src/App.jsx
import React from 'react';
import Header from './components/Header'; // Import the Header component
import './App.css'; // Optionally, add global styles here

function App() {
 return (
  <div className="App">
   <Header />  {/* Render the Header component */}
  </div>
 );
}
export default App;
```

Step: 4 index.css *(Global Styles, Optional)*

```css
:root {
 font-family: Inter, system-ui, Avenir, Helvetica, Arial, sans-serif;
 line-height: 1.5;
 font-weight: 400;

 color-scheme: light dark;
 color: rgba(255, 255, 255, 0.87);
 background-color: #242424;

 font-synthesis: none;
 text-rendering: optimizeLegibility;
 -webkit-font-smoothing: antialiased;
 -moz-osx-font-smoothing: grayscale;
}

a {
 font-weight: 500;
```

```
  color: #646cff;
  text-decoration: inherit;
}
a:hover {
  color: #535bf2;
}

body {
  margin: 0;
  display: flex;
  place-items: center;
  min-width: 320px;
  min-height: 100vh;
}

h1 {
  font-size: 3.2em;
  line-height: 1.1;
}

button {
  border-radius: 8px;
  border: 1px solid transparent;
  padding: 0.6em 1.2em;
  font-size: 1em;
  font-weight: 500;
  font-family: inherit;
  background-color: #1a1a1a;
  cursor: pointer;
  transition: border-color 0.25s;
}
button:hover {
  border-color: #646cff;
}
button:focus,
button:focus-visible {
  outline: 4px auto -webkit-focus-ring-color;
}

@media (prefers-color-scheme: light) {
  :root {
    color: #213547;
    background-color: #ffffff;
  }
  a:hover {
    color: #747bff;
  }
  button {
```

```
    background-color: #f9f9f9;
  }
}
```

Step: 5 **index.jsx** *(Entry Point for React App)*

```jsx
// src/index.jsx
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';  // Global styles for the app
import App from './App'; // Import the main App component

ReactDOM.createRoot(document.getElementById('root')).render(
  <React.StrictMode>
    <App />
  </React.StrictMode>
);
```

Step: 6 **Profile Picture:**

Place your **profile picture** *(e.g., profile-picture.jpg) in the public folder. If you want, you can create a folder inside src (like assets/) and reference the image there, but for simplicity, we will use the public folder.*

1. *Create the* **public folder** *if it doesn't exist.*
2. *Place your* **profile image** *inside the public folder.*

Step: 7 **Run the App:** *- (npm run dev)*