register() Registers an input or select element

handleSubmit() Handles form submission

formState.errors Provides form validation errors

reset() Resets the form to its initial values

watch() Observes input value changes

setValue() Manually sets an input value

React Hook Form only triggers its built-in validation for fields it knows about — and custom date picker (CustomDatePicker) is not registered using react-hook-form

react-router-dom is the standard routing library for React applications that run in the browser. It enables client-side routing, allowing you to navigate between different components (pages) without reloading the page — giving your app a single-page application (SPA) experience.

🔧 What is react-scripts?

react-scripts is a package used internally by Create React App (CRA) — the most popular toolchain for quickly setting up a modern React app with zero configuration.

react-toastify is a popular notification library for React that lets you display elegant, customizable toast messages (temporary pop-up alerts) in your app with minimal setup.

It’s great for showing:

Success messages

Error alerts

Info/warning toasts

Any feedback that should auto-dismiss

**⚛️ index.js**

* **Entry point** of the React app.
* Renders the <App /> component into index.html's #root div.
* Usually contains:

import ReactDOM from 'react-dom/client';

import App from './App';

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

**📄 index.html**

* The **main HTML file**.
* Has a <div id="root"></div> — this is where your React app is injected.
* Found in the public folder.
* Only one page; React handles the rest dynamically.

**🎨 index.css**

* Global **CSS styles** for the entire app.
* Imported in index.js to apply base styles.
* Affects all components unless overridden.

**📂 JS vs JSX**

| **JS (JavaScript)** | **JSX (JavaScript XML)** |
| --- | --- |
| Standard JavaScript | JS + HTML-like syntax |
| Doesn't support HTML directly | Supports writing HTML inside JS |
| Needed to run the app | Makes React UI code readable |

✅ JSX gets compiled to JS under the hood.

**📦 App.js**

* Main **component** that holds your entire app’s structure.
* Rendered inside index.js.
* Helps organize UI into smaller components.

index.js is just the **bootstrap file** — App.js contains the actual app UI.

**app.css vs index.css**

| **index.css** | **App.css** |
| --- | --- |
| Global styles | Styles only for the App component |
| Loaded in index.js | Loaded in App.js |

Use App.css for component-specific styles and index.css for app-wide styling.

**🛡️ React.StrictMode**

* A **development-only tool** that helps you find bugs.
* Wraps your app like this:

<React.StrictMode>

<App />

</React.StrictMode>

* Highlights:
  + Deprecated APIs
  + Side effect issues
  + Double-invokes some functions on purpose (in dev only)

✅ It does **not affect production** performance.