

React JS

React Forms

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Agenda



- 03 Controlled Components
- 05 Form Validation









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Forms in HTML

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Forms are an essential part of HTML, as they are used to collect information from user









Forms are important because they are the most intuitive way that a user can interact and enter data into our application









Forms in HTML have several tags such as form, input, label, button etc.









Each component in a form has their own attributes which modify how they look and/or how they work









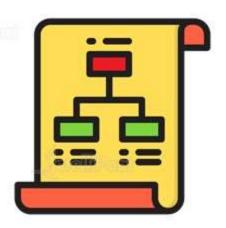
Creating a form in ReactJS



Just like HTML, ReactJS can also be used to create forms which can be used to capture user input





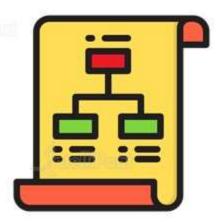




But with ReactJS we can have forms which can manage their own internal state and keep it in sync with the UI





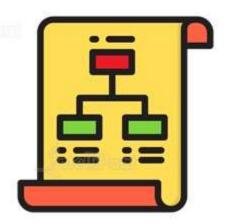




These forms can handle validation errors as well as asynchronous form submissions as well







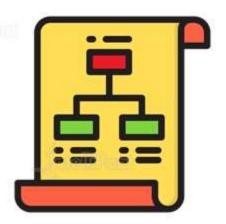


There are two ways to create and manage a Form Components in ReactJS:

Controlled Components and Uncontrolled Components









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Controlled Components

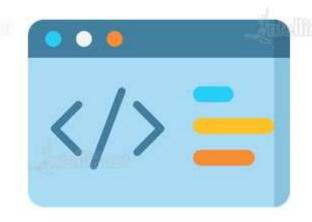
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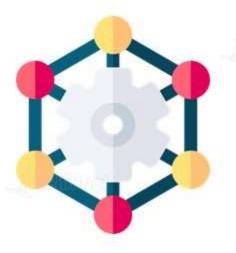
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In ReactJS a controlled component is an element that contains data that is handled by the state within the component

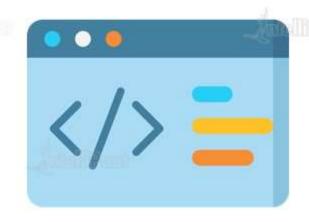


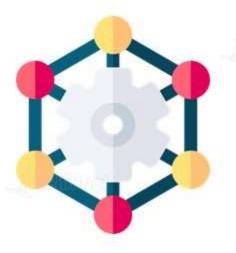






In other words a component that contains data which is managed and controlled by it's internal state is a controlled component

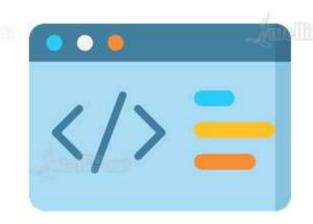


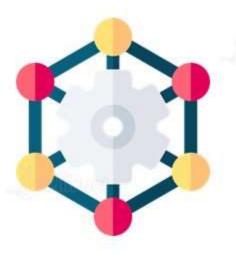






A Controlled Component is especially useful when building forms as each form element can contain it's own internal state which can be managed by ReactJS

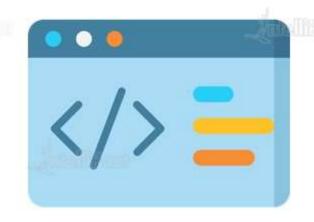


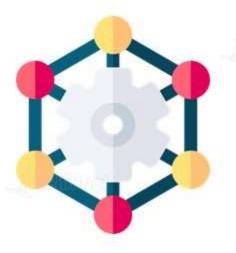






In a Controlled Component the state acts as "single source of truth" as the data flow is uni-directional so it can only be updated one way









Hands On: Controlled Components















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In ReactJS Uncontrolled Components act more like traditional HTML elements





In Uncontrolled Components we get access to underlying DOM elements and query their data instead of maintaining state





To get access to underlying HTML components we make extensive use of refs, which allow us to access DOM elements in ReactJS





Although Uncontrolled Components are easier to use and understand they should only be used in special cases where we need to manipulate underling DOM elements





Hands On: Uncontrolled Components















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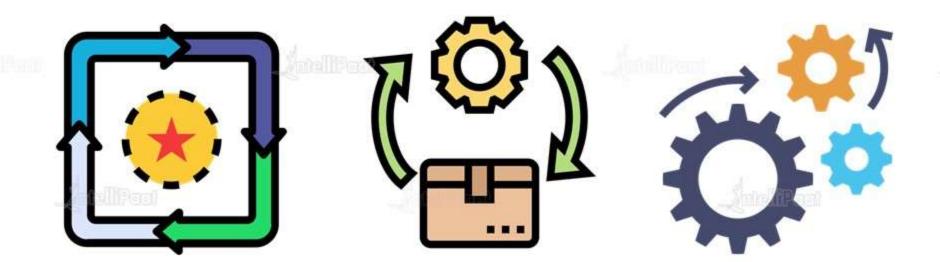






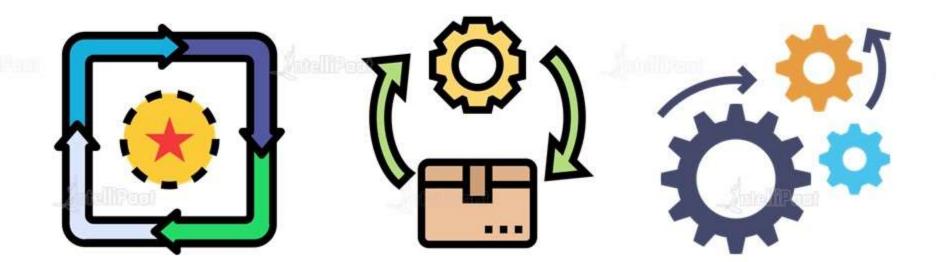


In ReactJS since we can store data as state in our components we can also have validation of the same data in that component



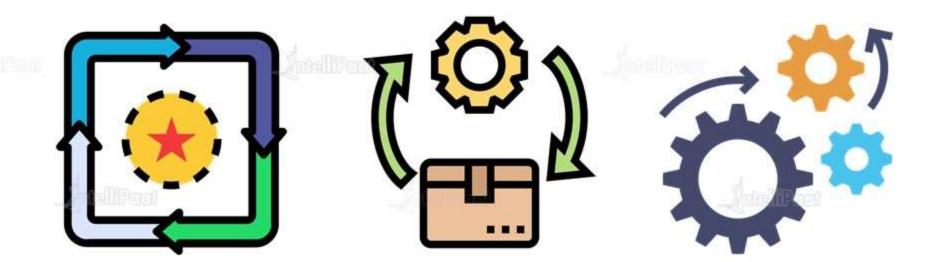


When building a form we can store validation rules and when the form is submitted we can generate error messages



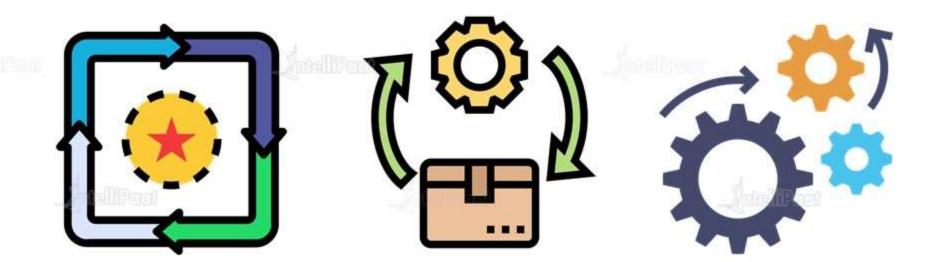


So in order to validate form we need to keep track of data as state variables and generate and display errors using state variables as well





We just need to make sure that the forms are validated properly and if they are then we can submit them asynchronously and deal with the result





Hands On: Validating Forms















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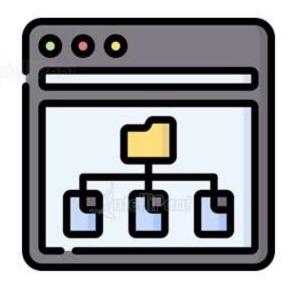
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Once we have validated our forms we and we have gotten some errors we need to give feedback to the user to fix those errors





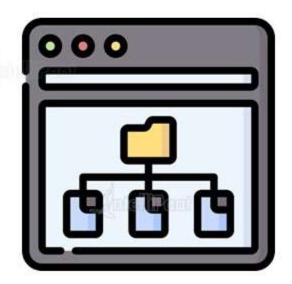




For this purpose we need to display errors and indicate that the data entered by the user is invalid and needs to be fixed





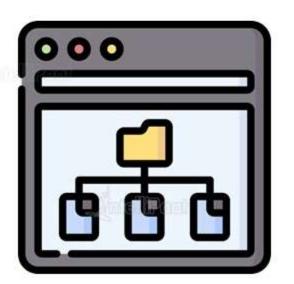




And we need to remove the errors once they are fixed and form is submitted to the users





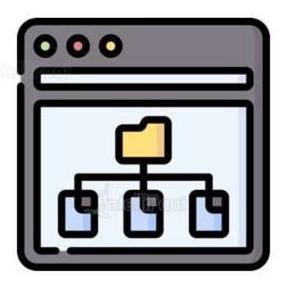




There are many libraries available for form validation and error handling but only use them your forms become really complicated









Hands On: Displaying Errors









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