# Implementing Uncontrolled Forms Using Vanilla React



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#### Overview



Understand how uncontrolled forms work

Key difference between a controlled and uncontrolled form

How to create uncontrolled forms

How to set default values for uncontrolled forms

When to use uncontrolled forms



#### Uncontrolled Forms



DOM maintains the state of the form



The component does not set the values of the form elements



User input needs to be manually pulled out on events like onSubmit



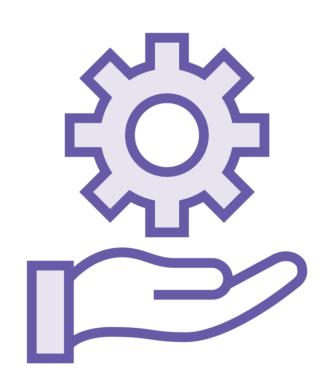
Very similar to how forms are handled in non-React JS code



Setting the value or checked prop on a field makes the element a controlled element.

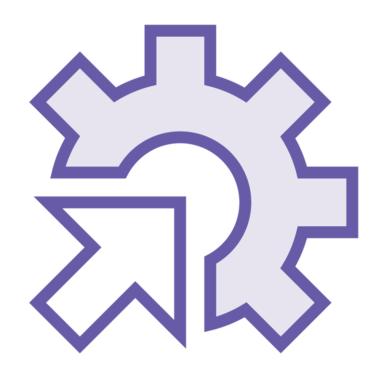


## Steps for Creating an Uncontrolled Form



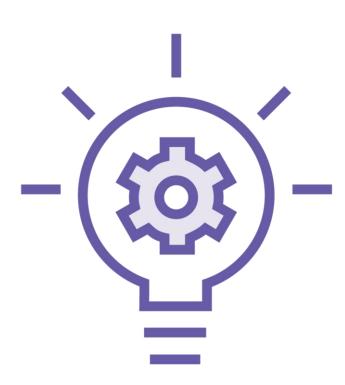


Using React.createRef() in constructor



Assign reference

Using ref prop on form element



**Extract value** 

Using the reference created in constructor



```
class NameForm extends React.Component {
constructor(props) {
 super(props);
  this.submit = this.submit.bind(this);
  this.input = React.createRef();
submit(event) {
  alert(Value: ' + this.input.current.value);
 event.preventDefault();
render() {
  return (
    <form onSubmit={this.submit}>
       <input type="text" ref={this.input} />
       <input type="submit" value="Submit" />
    </form>
 );}
```

■ Access value using reference variable

■ Use ref prop to assign reference to input tag

## Setting Initial Values



An uncontrolled form can not set the value prop of a form element

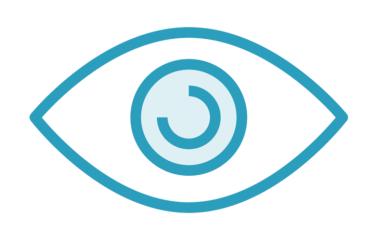


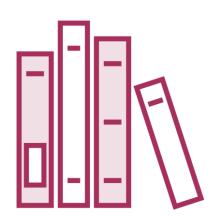
Use the defaultValue, defaultChecked prop on form elements

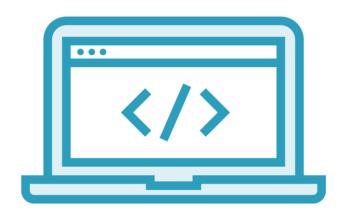


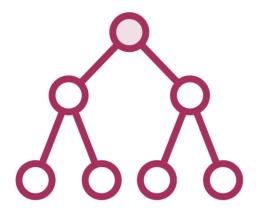
Changing default values after component mount has no effect

### When to Use Uncontrolled Forms









For read-only elements like file input

When using a non-react library for form elements in a React app

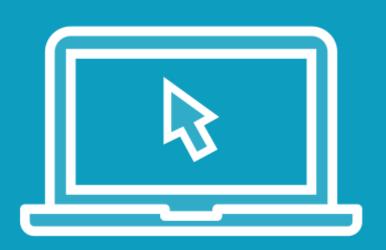
When converting a preexisting codebase to React

To reduce rerendering the form in a complex DOM



## Adding File Upload Functionality to a Form

### Demo



Invoice tracker application

Add file upload functionality using file input tag to Invoice creation form



### Summary



Salient features of Uncontrolled forms

Key difference between a Controlled and an Uncontrolled form

How to create Uncontrolled forms

How to set default values for an Uncontrolled form

Scenarios where Uncontrolled forms should be used



## Up Next:

Using React Hook Form to Create Uncontrolled Forms

