

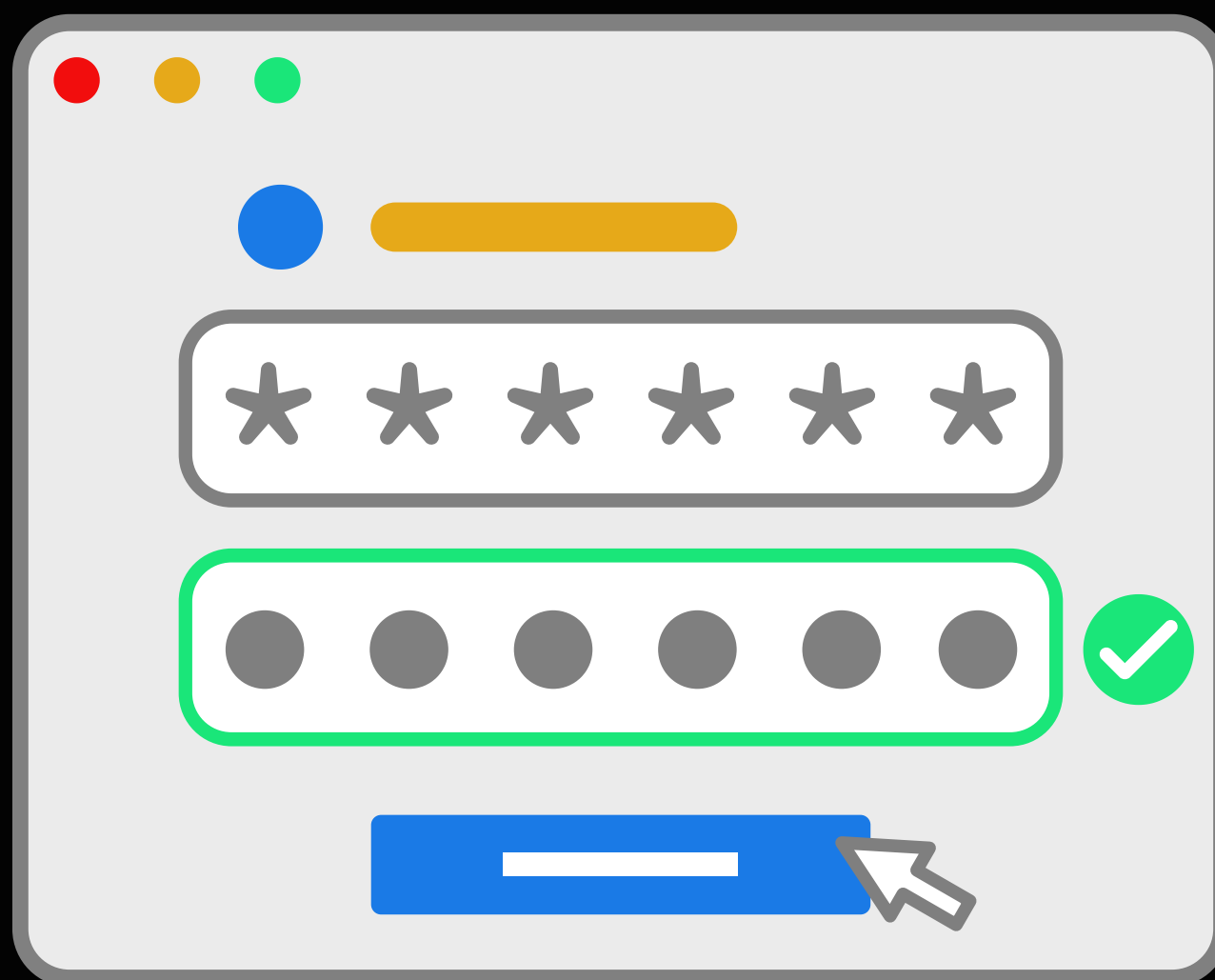
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REACT FORMS



Introduction to Forms in React

- In React, forms are used to collect user input and handle data submission.
- By leveraging state and event handling, we can create dynamic and interactive forms.



Creating a Basic Form

- It can be separated into JS section to handle the input and HTML section to get the input.

```
import React, { useState } from 'react';

const SimpleForm = () => {
  const [formData, setFormData] =
    useState({ name: '', email: '' });

  const handleChange = (e) => {
    const { name, value } = e.target;
    setFormData({ ...formData, [name]: value });
  };

  const handleSubmit = (e) => {
    e.preventDefault();
    alert(`Name: ${formData.name}, Email: ${formData.email}`);
  };
}
```

- We use useState to create a state variable formData to store the form inputs.



```

return (
  <form onSubmit={handleSubmit}>
    <div>
      <label>
        Name:
        <input type="text" name="name"
          value={formData.name} onChange={handleChange} />
      </label>
    </div>
    <div>
      <label>
        Email:
        <input type="email" name="email"
          value={formData.email} onChange={handleChange} />
      </label>
    </div>
    <button type="submit">Submit</button>
  </form>
);
};

export default SimpleForm;

```

- It's initialized with an object containing name and email properties, both set to empty strings.
- The handleChange function updates the state when the user types into the form fields.



- Inside the return statement, we create the form with two input fields (name and email) and a submit button.
- We attach the handleChange function to the onChange event of the input fields and the handleSubmit function to the onSubmit event of the form.



Benefits of Using React for Forms

- React's state management makes it easy to handle form inputs and keep track of user data.
- React simplifies event handling, allowing you to easily respond to user actions.
- React components are reusable, making it easy to create complex forms by composing smaller, reusable components.



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