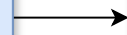


Best way to learn
React

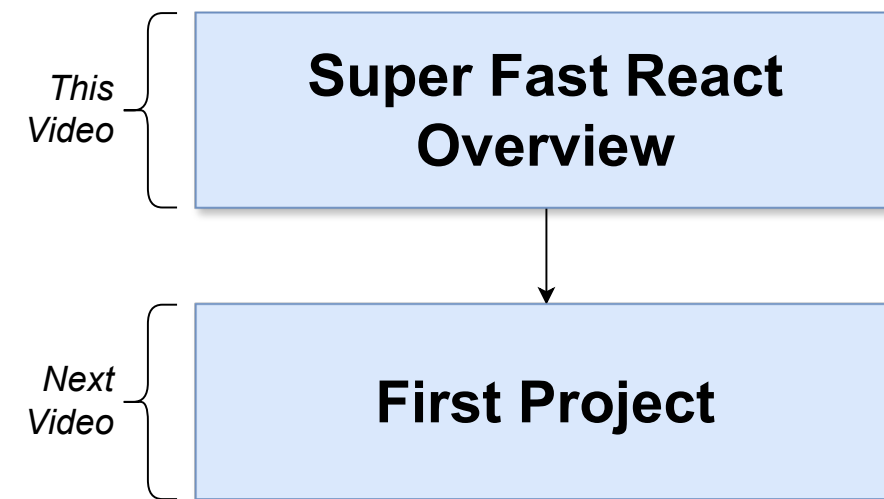


Write Code!

*Let's build a project
right now!*

cloud.google.com/translate/docs/languages

Find appropriate language code, then
update argument to the 'useTranslate'
function



Page 1

⏮️⏭️🔄

📄https://www.draw.io

Enter English

Hello!

Select Language

Russian▼

Output

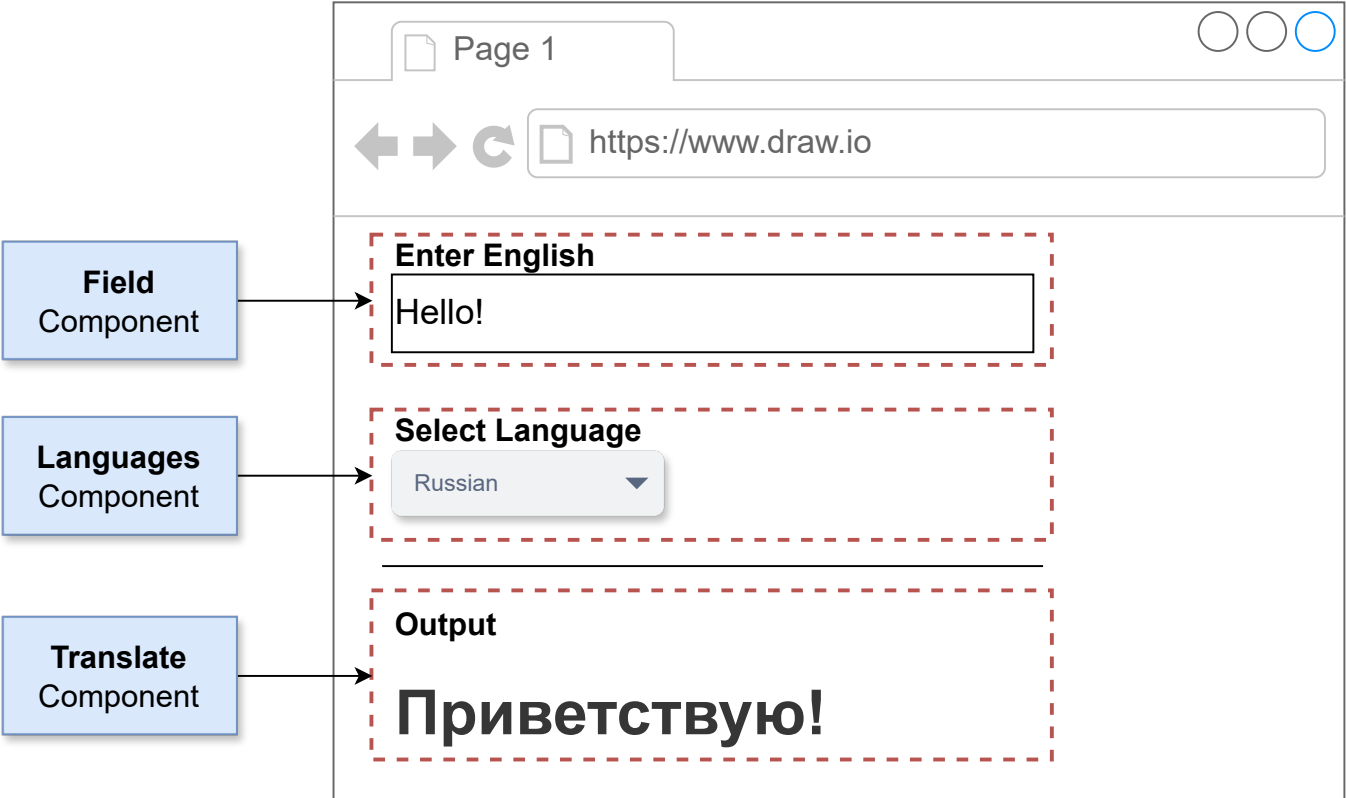
Приветствую!

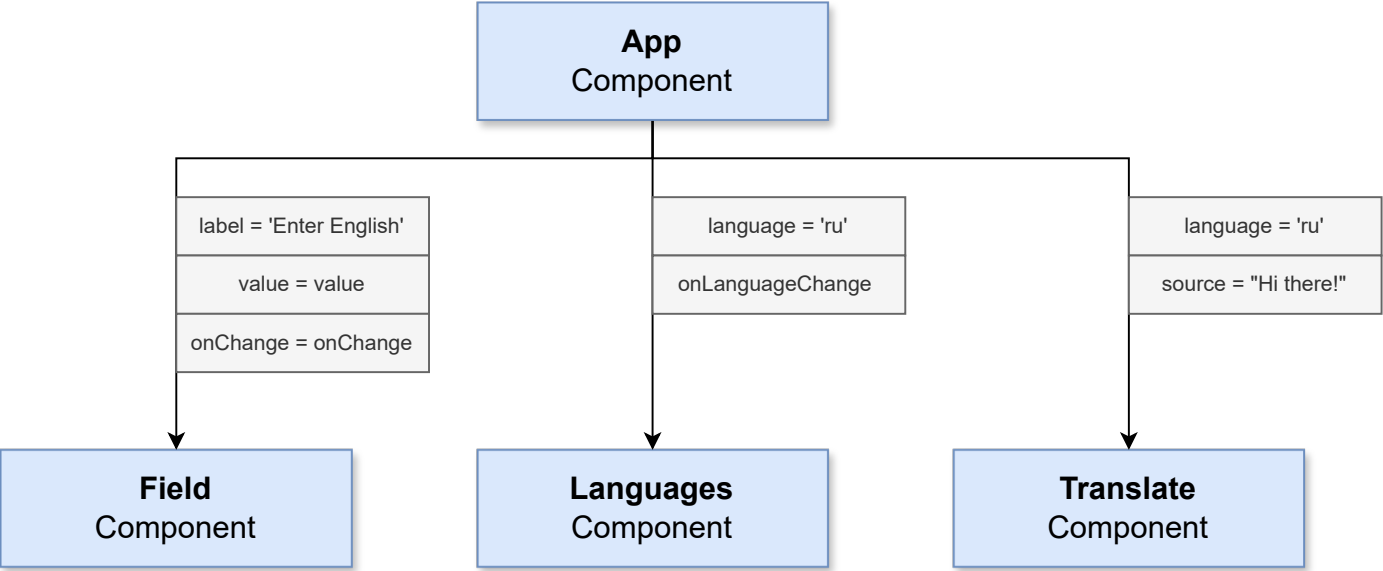
This first project will be written using an online IDE



codesandbox.io/s/react-yud4c

*All other projects will be created on your
local machine*

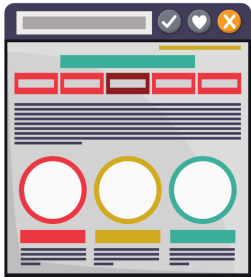




Goals of React

React Has Two Goals

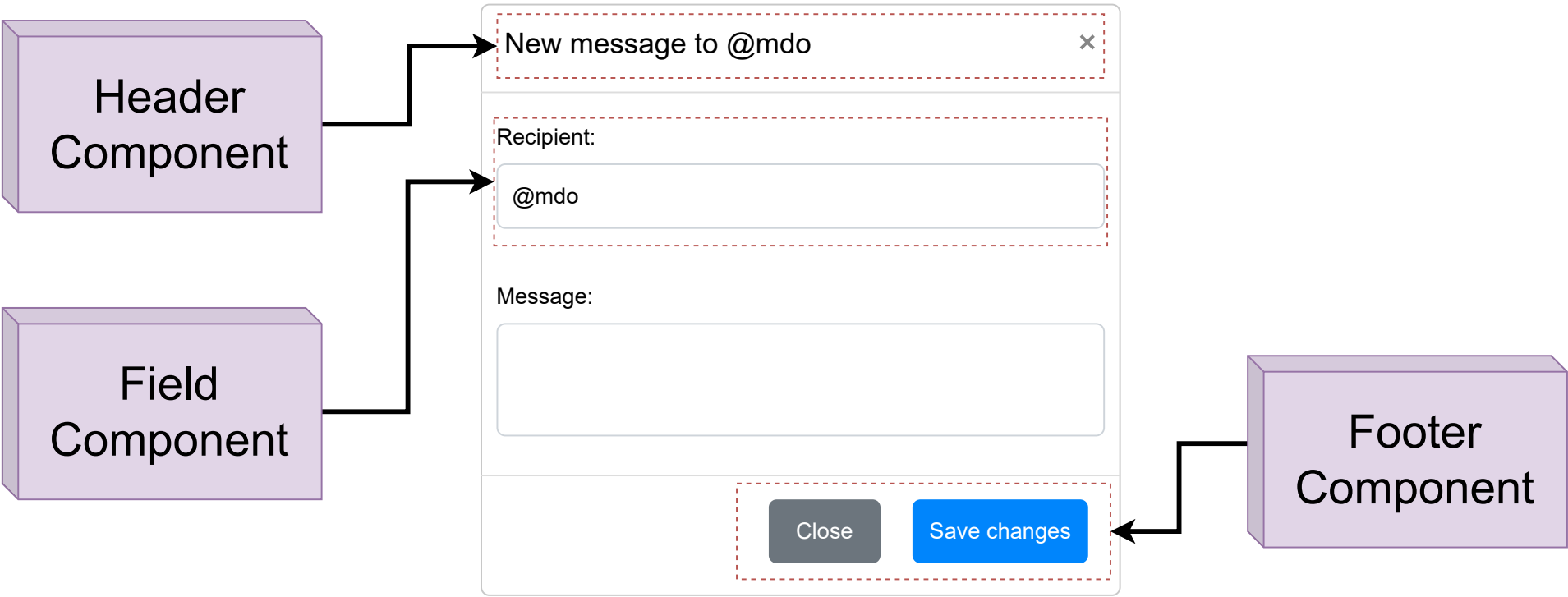
Show Content to Users



Handle User Events



Components



Class Component

```
class App extends React.Component {  
  render() {  
    return (  
      <div>  
        <h1>Hi There!</h1>  
        <p>My dog's name is Rusty.</p>  
      </div>  
    );  
  }  
}  
  
export default App;
```

Function Component

```
function App() {  
  return (  
    <div>  
      <h1>Hi There!</h1>  
      <p>My dog's name is Rusty.</p>  
    </div>  
  );  
}  
  
export default App;
```

JSX

Function Component

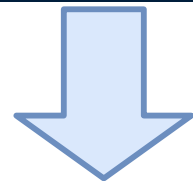
```
function App() {  
  return (  
    <div>  
      <h1>Hi there!</h1>  
      <p>My dog's name is Rusty.</p>  
    </div>  
  );  
}
```

JSX

*Determines what this
component will show on
the screen*

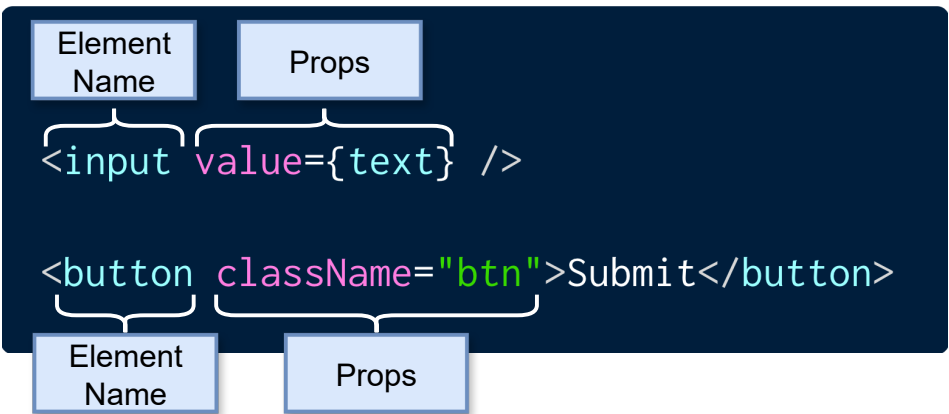
```
<div>
  <h1>Hi there!</h1>
  <p>My dog's name is Rusty.</p>
</div>
```

JSX we write



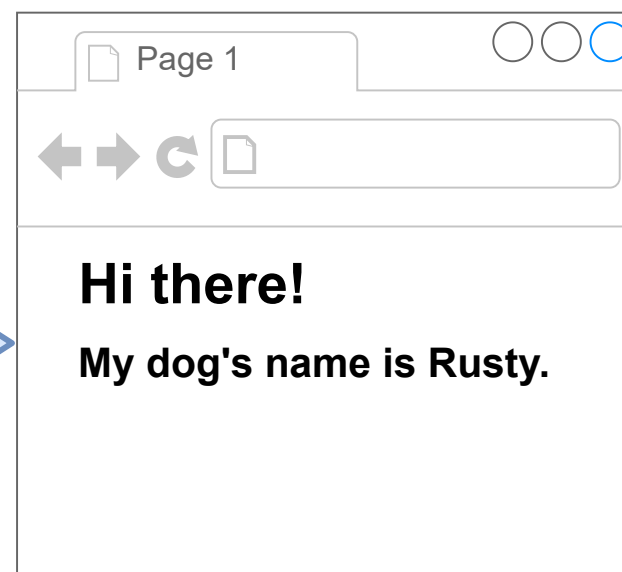
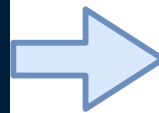
```
React.createElement(
  "div",
  null,
  React.createElement("h1", null, "Hi There!"),
  React.createElement("p", null, "My dog's name is Rusty.")
);
```

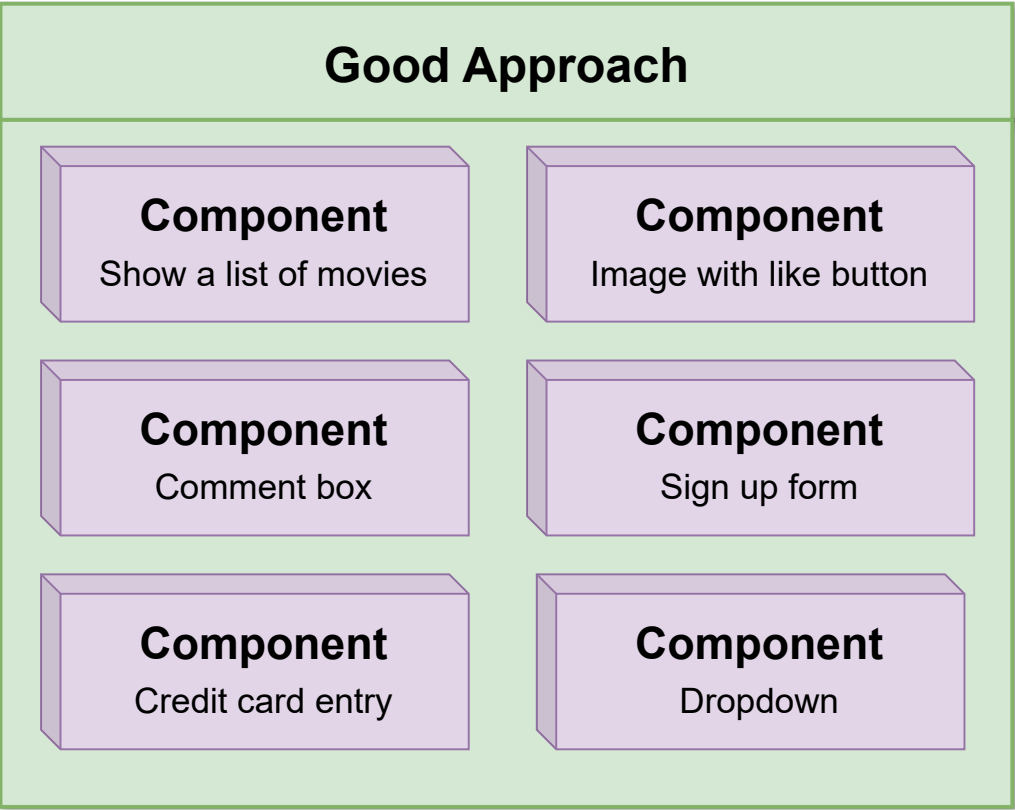
**How React
interprets it**

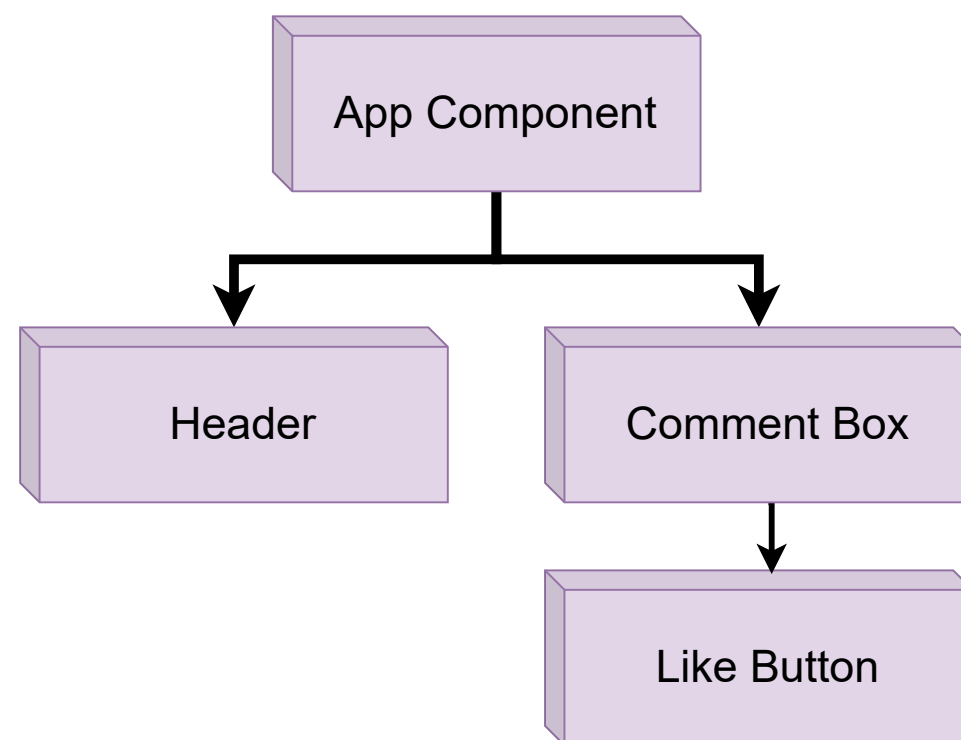


JSX Creates Content

```
function App() {  
  return (  
    <div>  
      <h1>Hi there!</h1>  
      <p>My dog's name is Rusty.</p>  
    </div>  
  );  
}
```







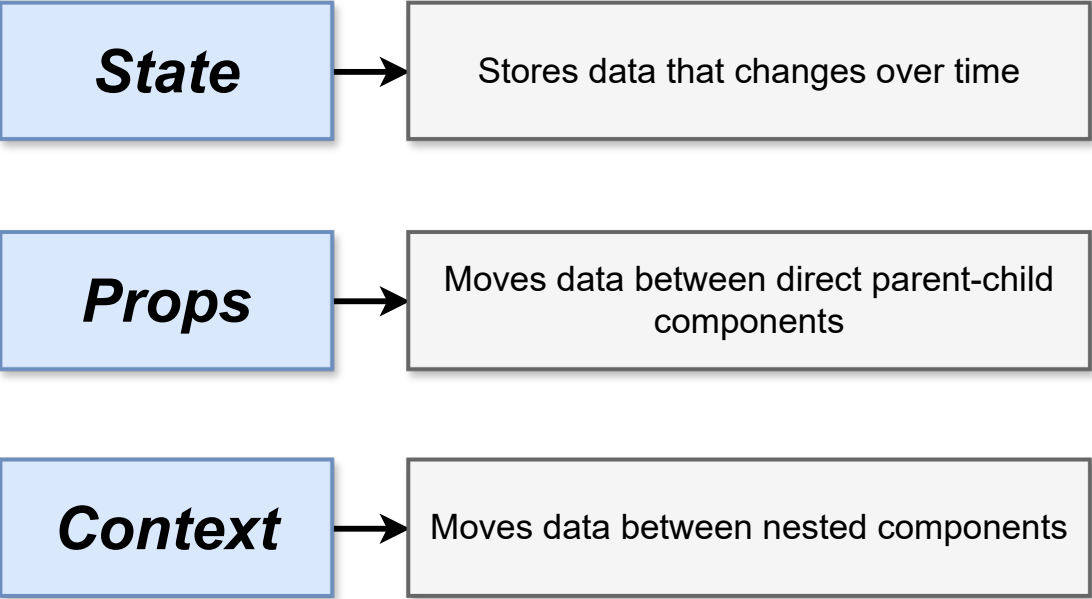
Event Listeners

```
function App() {  
  return (  
    <div>  
      <button onClick={() => console.log('Click')}>  
        Buy Now  
      </button>  
    </div>  
  );  
}
```

Name of event
to watch for



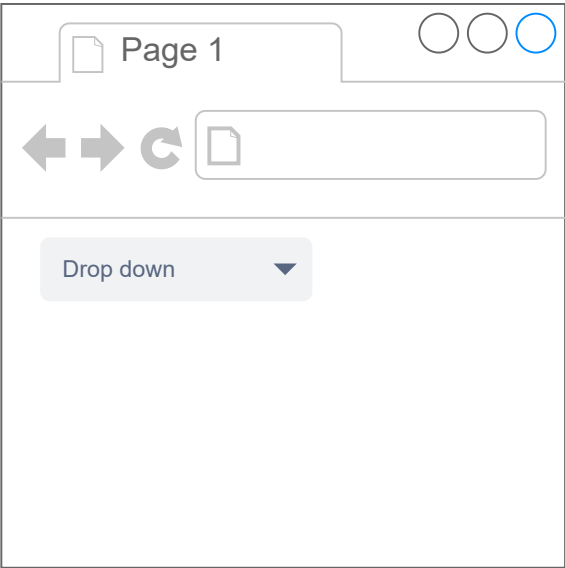
Three Data Systems



State System

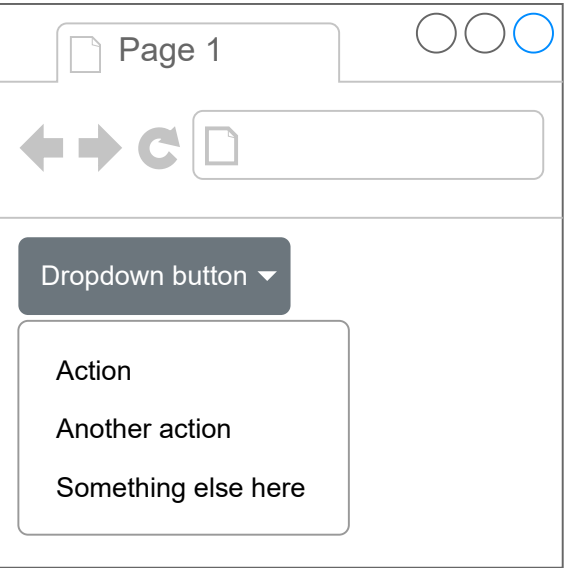
Dropdown Component

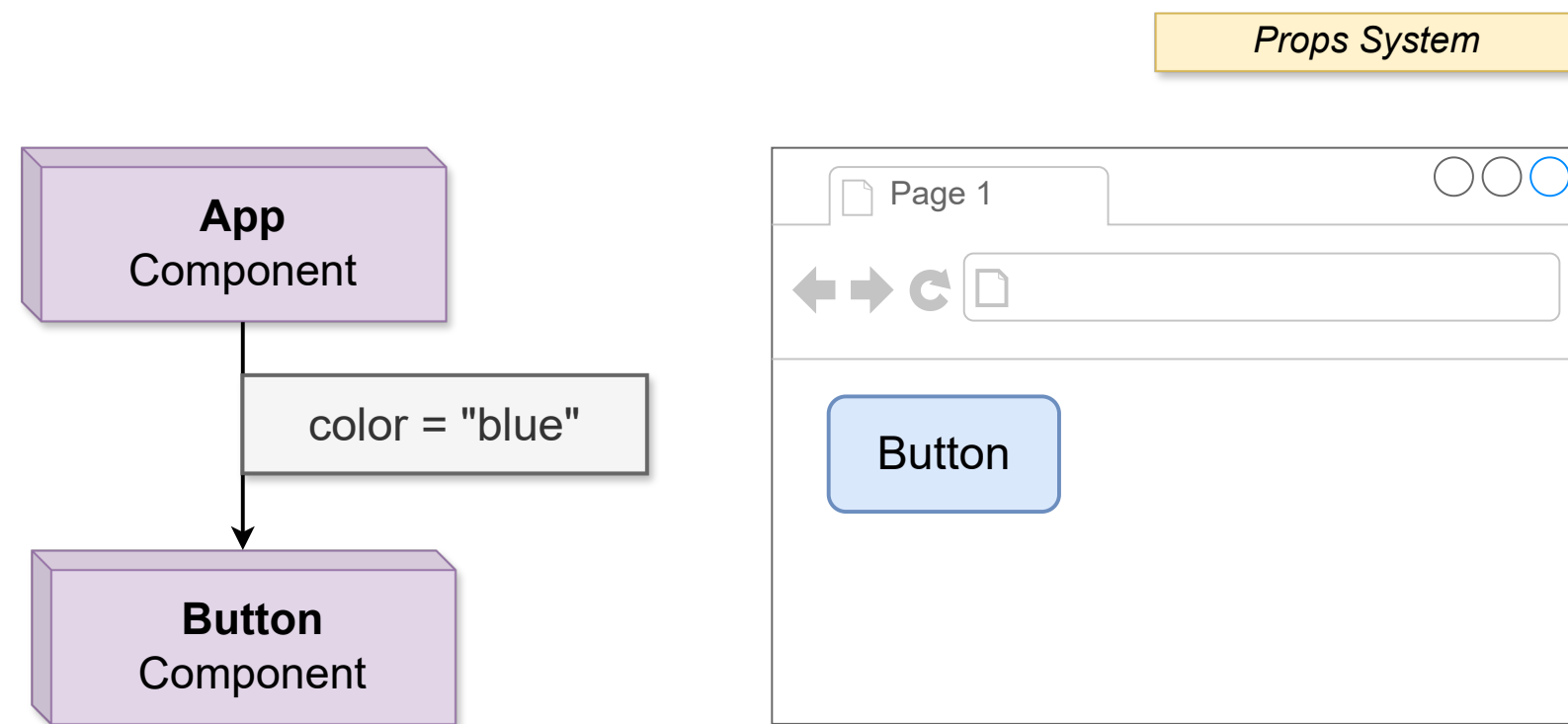
open: false



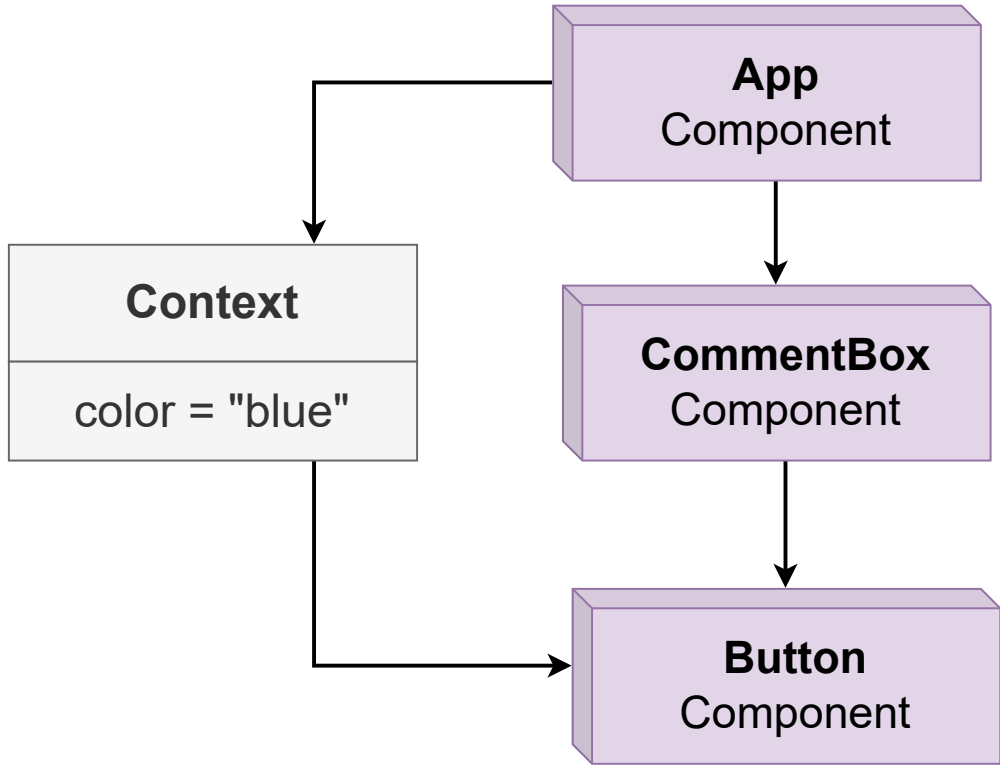
Dropdown Component

open: true





Context System



A screenshot of a web browser window. The browser has a single tab labeled "Page 1". The address bar is empty. The main content area displays a form titled "Add a Comment". The form consists of a text input field and a blue "Submit" button.

Hooks

useState



Hook for using the state system in a function component

useEffect



Hook for using a 'lifecycle method' in a function component

useContext



Hook for using the context system in a function component

