Conclusion

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Using the ButtonGroup Component in React Bootstrap

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Nov 10, 2020 • 5 Min read • 200 Views

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Introduction

`ButtonGroup` is a wrapper component in React Bootstrap that allows you to group buttons together. It has many use cases in toolbars, pagination, dropdown menus, and related UI components. When grouping buttons together, you need a way to tell which button is clicked from the group to trigger an event. For instance, if you have a `ButtonGroup` component for pagination, each `Button` component refers to a page number in your app. When a button is

clicked, you need to know the page number associated with that button.

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s guide explains how to use `ButtonGroup` in React Bootstrap to extract relevant information about each button.

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Implementation

Create an empty React project by running:

shell

```
npx create-react-app react-buttongroup-app
```

Install React Bootstrap and vanilla Bootstrap by running the following command inside the root directory:

shell

```
npm install react-bootstrap bootstrap
```

Inside the `App` component, import Bootstrap's stylesheet along with the `Button`, and `ButtonGroup` components from React Bootstrap .

jsx

```jsx
import './App.css';
import 'bootstrap/dist/css/bootstrap.min.css';
import ButtonGroup from 'react-bootstrap/ButtonGroup';
import Button from 'react-bootstrap/Button';

function App() {

  return (
    <div className="App">
      <header className="App-header">

      </header>
    </div>
  );
}

export default App;
```

Render three `Button` components inside the `ButtonGroup` component, as shown below.

jsx

```jsx
import './App.css';
import 'bootstrap/dist/css/bootstrap.min.css';
import ButtonGroup from 'react-bootstrap/ButtonGroup';
import Button from 'react-bootstrap/Button';

function App() {

```

```
    return (
      <div className="App">
        <header className="App-header">
        <ButtonGroup>
          <Button variant="primary" >Button 1</Button>
          <Button variant="danger" > Button 2</Button>
          <Button variant="warning">Button 3</Button>
        </ButtonGroup>
        </header>
      </div>
    );
  }

  export default App;
```

In order to read any button clicks inside the `ButtonGroup` component, you need to set up an `onClick` handler that takes in the `event` object. This `event` object can be utilized to extract information about the button clicked. Add a `value` attribute inside each `Button` component to identify which button is clicked.

jsx

```
import './App.css';
import 'bootstrap/dist/css/bootstrap.min.css';
import ButtonGroup from 'react-bootstrap/ButtonGroup';
import Button from 'react-bootstrap/Button';

function App() {

  return (
    <div className="App">
```

```
        <header className="App-header">
        <ButtonGroup>
          <Button variant="primary" value="Button 1">Button 1</Button>
          <Button variant="danger" value="Button 2"> Button 2</Button>
          <Button variant="warning" value="Button 3">Button 3</Button>
        </ButtonGroup>
        </header>
      </div>
    );
  }

  export default App;
```

When **Button 1** is clicked, you need to read the value `Button 1`, and the same goes for the rest of the buttons. This information can be extracted from the event object by accessing the `value` property on its `target` property as `event.target.value`. By setting an `onClick` event on the `ButtonGroup` component, you can fire the function `handleClick` in which you obtain the required information from the `event` object.

jsx

```
...
  const handleClick=(e)=>{
    console.log(e.target.value)
  }
  return (
    <div className="App">
      <header className="App-header">
      <ButtonGroup onClick={handleClick}>
```

```
          ...
        </ButtonGroup>
        </header>
      </div>
    );
  ...
```

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Final Code

Here's the complete code.

jsx

```jsx
import './App.css';
import 'bootstrap/dist/css/bootstrap.min.css';
import ButtonGroup from 'react-bootstrap/ButtonGroup';
import Button from 'react-bootstrap/Button';

function App() {
  const handleClick=(e)=>{
    console.log(e.target.value)
  }
  return (
    <div className="App">
      <header className="App-header">
      <ButtonGroup onClick={handleClick}>
        <Button variant="primary" value="Button 1">Button 1</Button>
        <Button variant="danger" value="Button 2"> Button 2</Button>
        <Button variant="warning" value="Button 3">Button 3</Button>
      </ButtonGroup>
      </header>
```

```
        </div>
      );
    }

    export default App;
```

When any of the buttons are clicked, the value of that button passes through the `onClick` handler and can be accessed inside the `handleClick` function, as shown above. You can check the value by clicking the button and reading the console.

Conclusion

The approach followed in this guide of using `ButtonGroup` can be extended to **input fields** and **forms** as well. You can also use the `data-key` attribute instead and get the required information by referencing `event.target.attributes.getNamedItem('data-key').value`. You can use the same concept to build custom dropdown components or a custom toolbar. If you have any questions, feel free to contact me at Codealphabet.