React Handling Events

Introduction

- Handling events with React elements is very similar to handling events on DOM elements. There are some syntax differences:
 - React events are named using camelCase, rather than lowercase.
 - With JSX you pass a function as the event handler, rather than a string

 Default behavior of element is slightly different in HTML and React.

HTML

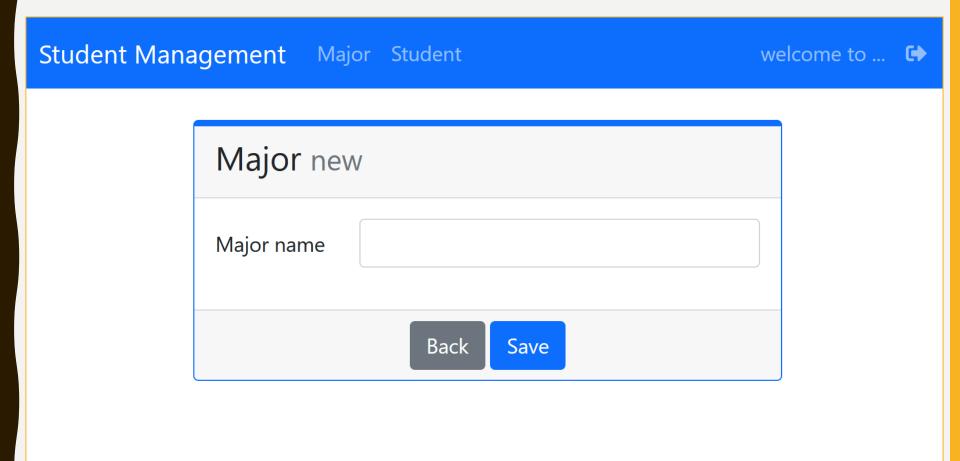
React

```
function Form() {
  function handleSubmit(e) {
    e.preventDefault();
    console.log('You clicked submit.');
  return (
    <form onSubmit={handleSubmit}>
      <button type="submit">Submit</button>
    </form>
  );
```

Event of Back Button on MajorEdit

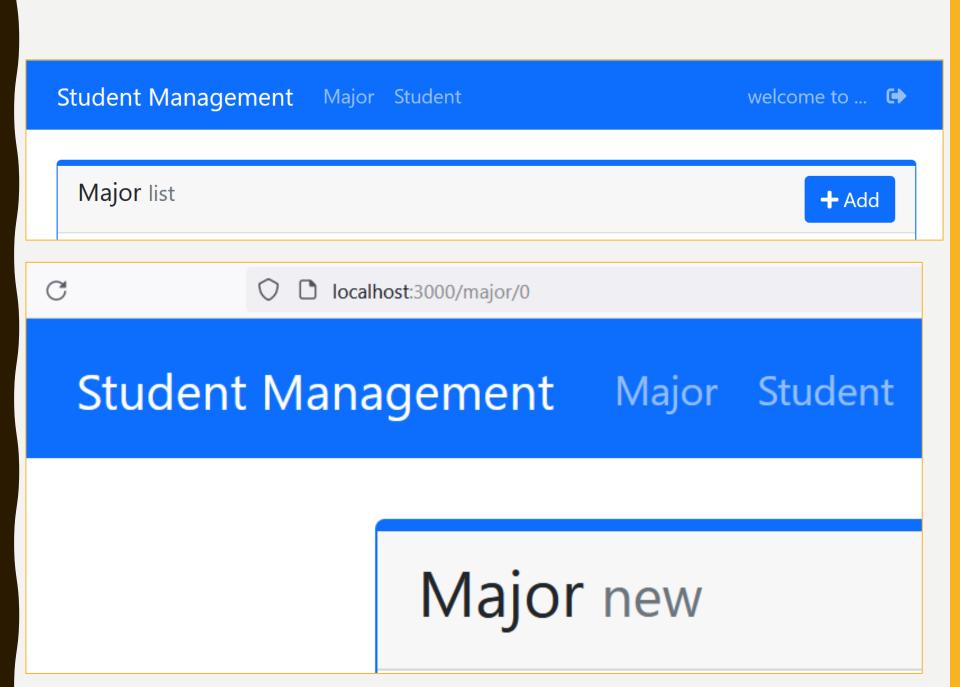
```
import { useParams, useNavigate } from "react-router-dom";
const MajorEdit = () => {
  const { id } = useParams<{ id: string }>();
 const navigate = useNavigate();
  const handleBack = () => {
   navigate("/major");
  };
```

```
<button type="button" className="btn btn-secondary me-1"
    onClick={handleBack}>
    Back
</button>
```



Event of Add Button on Major

```
const Major = () => {
  const navigate = useNavigate();
  const showEditPage = (e: any, id: number) => {
    if (e) e.preventDefault();
    navigate(`/major/${id}`);
  };
  return (
```



Handle on Change Event of Input

```
const MajorEdit = () => {
 const { id } = useParams<{ id: string }>();
 const navigate = useNavigate();
 const [major, setMajor] = useState({ id: 0, name: "" });
 const handleBack = () => { ···
 };
 const handleChange = (e: React.FormEvent<HTMLInputElement>) => {
   setMajor({
      ...major,
     [e.currentTarget.name]: e.currentTarget.value });
 };
```

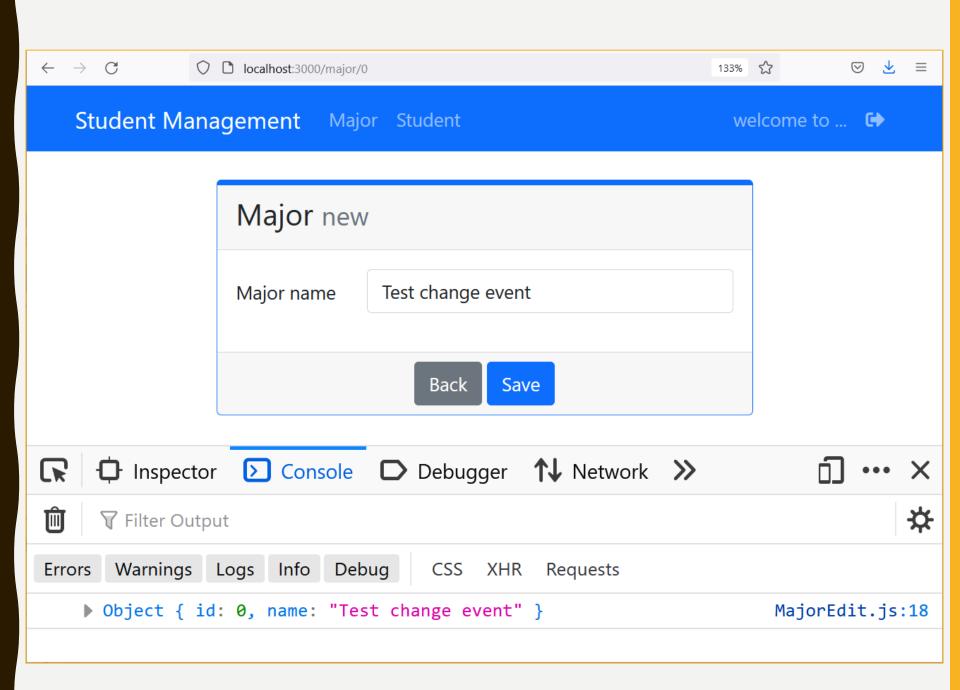
```
<Input label="Major name" id="txtMajorName" name="name"
  onChange={handleChange} defaultValue={major.name}
/>
```

```
> const handleBack = () => { ...
};

const handleChange = (e: React.FormEvent<HTMLInputElement>) => { ...
};

const handleSave = () => {
    console.log(major);
};
```

```
<button type="button" className="btn btn-primary"
    onClick={handleSave} >
    Save
    </button>
```



Add CustomButton Component

 In "components" folder, create a new file named "CustomButton.tsx"

```
import { ButtonHTMLAttributes, DetailedHTMLProps, FC } from "react";
type ButtonAttributes = ButtonHTMLAttributes<HTMLButtonElement>;
interface CustomButtonProps extends DetailedHTMLProps<ButtonAttributes, HTMLButtonElement> {
  color: string:
const CustomButton: FC<CustomButtonProps> = ({
            color, className = "",
            children, ...others }) => {
  const buttonClass = `btn btn-${color} ${className}`;
  return (
    <button type="button" className={buttonClass} {...others}>
      {children}
    </button>
export default CustomButton;
```

Modify Back Button on MajorEdit

```
<button type="button" className="btn btn-secondary me-1"
   onClick={handleBack}>
   Back
</button>
```



```
<CustomButton color="secondary" className="me-1"
  onClick={handleBack}>
  Back
</CustomButton>
```

