# Software Structure

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Lecture 4

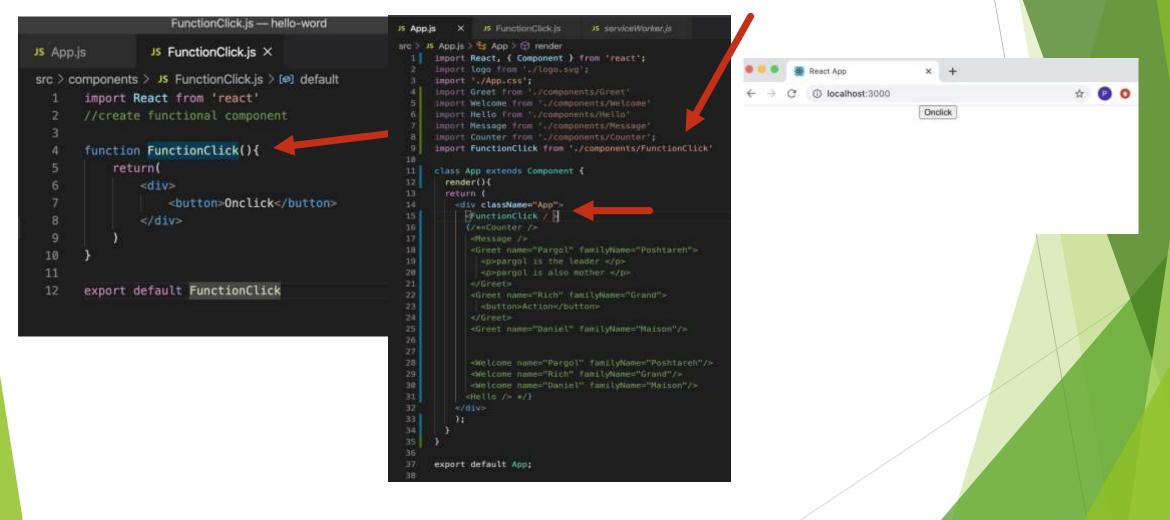
### Outline

- Events and Event handling
- Forms
- Styling

## **Event Handling:**

1 ) Functional Component :

Create file inside components folder and name it FunctionClick.js Create functional component inside of it and add button

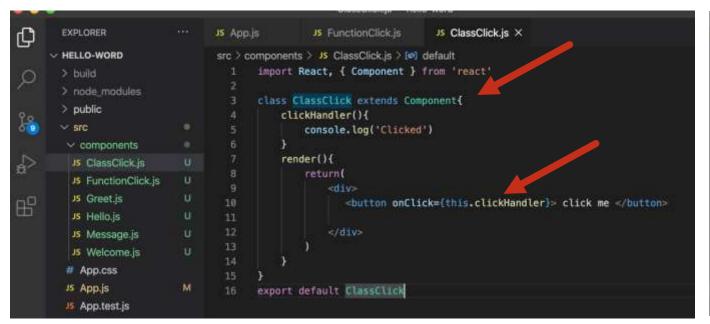


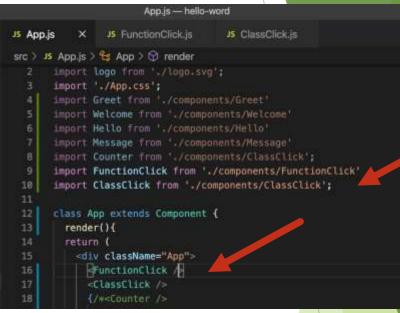
Now lets capture this click and run some basic codes:

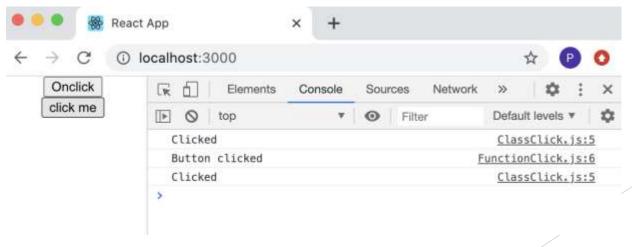
We are creating the FunctionClick React App ① localhost:3000 Onclick Default levels ▼ [HMR] Waiting for update signal from WDS... log. js:24 react-dom.development.js:24994 Download the React DevTools for a better development experience: https://fb.me/react-devtools webpackHotDevClient.js:138 A > ./src/App.js Line 2:8: 'logo' is defined but never used no-unused-vars 'Greet' is defined but never used no-unused-vars 'Welcome' is defined but never used no-unused-vars 'Hello' is defined but never used no-unused-vars 'Message' is defined but never used no-unused-vars Line 8:8: 'Counter' is defined but never used no-unused-vars Button clicked FunctionClick.js:6

#### 2 ) Class Component:

Create file inside components folder and name it ClassClick.js Create Class component inside of it and add button







## **Styling React Components:**

- CSS stylesheet
- Inline styling
- CSS Modules
- CSS in JS libraries

Each has example in W3school

## Basic of Form Handling:

For controlling the tags of Form in react we need **Controlled Components** 

Input value has the value and also can change respect user interaction

So we use state and setState:

## Example:

```
import './App.css';
JS Form.js
              JS App.js
src > components > Js Form.js > 😭 Form
       import React, { Component } from 'react'
       class Form extends Component [
           constructor(props) {
               super(props)
                                                                                                  14
                                                                                                         render(){
               this.state = {
                                                                                                         return (
                   username: "
                   //comments:''
                                                                                                  17
                                                                                                           <Form />
                                                                                                  19
           changeUsernameHandler=(event)=>{
               this.setState({
                   username: event.target.value
                                                                                                       export default App;
               })
           render() {
               return (
                  <form>
                           <label>Username</label>
                           <input type = 'text' value={this.state.username} onChange={this.changeUsernameHandler}/>
                      </div>
                  </form>
       export default Form
```

```
src > JS App.js > ...
      import React, { Component } from 'react';
      import Greet from './components/Greet'
      import Form from './components/Form'
      class App extends Component {
          <div className="App">
```

Exercise:

Create button and give alert with info:

