strategy | consulting | digital | technology | operations



AGENDA

- Understand conditional render
- How to achieve conditional rendering
- Lists
- Keys
- Demo





Introduction to Conditional Rendering

React provides the facility of displaying different layout/templates based on some conditions

It is also possible to render complete component based on the conditions

Conditions can be created using ifelse statement



Introduction to Conditional Rendering

In case if the small portion of a component is required to render based on the condition, then it is always better to create variable and store the small portion of UI inside the variable

Example

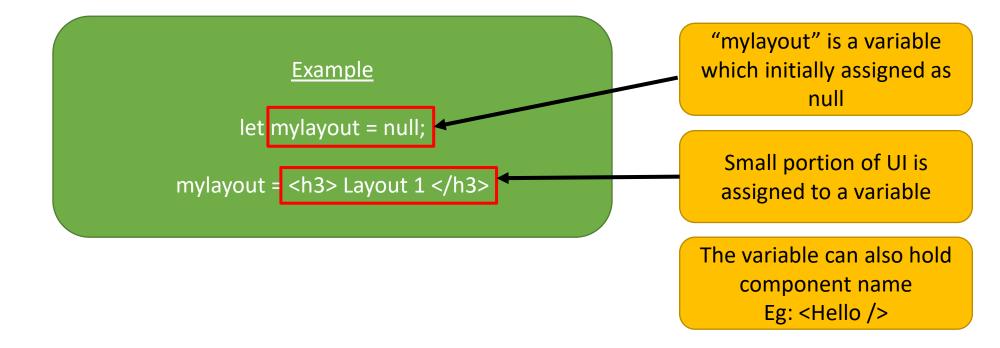
let mylayout = null;

mylayout = <h3> Layout 1 </h3>



Introduction to Conditional Rendering

In case if the small portion of a component is required to render based on the condition, then it is always better to create variable and store the small portion of UI inside the variable





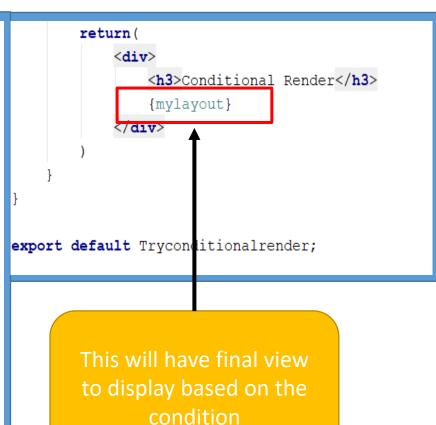
```
import React, {Component} from 'react';
class Tryconditionalrender extends Component{
    render(){
        let val=1;
        let mylayout=null;
        if(val===1){
            mylayout= <div style={{'color':'red','backgroundColor':'lightgreen','height':'50%',</pre>
                                    'width':'50%'}}>
                            <h3>Layout 1</h3>
                     </div>
        else{
            mylayout=<div style={{'color':'red','backgroundColor':'yellow','height':'50%',
                                   'width':'50%'}}>
                            <h3>Layout 2</h3>
                    </div>
```

```
import React, {Component} from 'react';
                                               "val" is a variable assigned
class Tryconditionalrender extends Component
    render () {
                                                    with the value=1
        let val=1;
        let mylayout=null;
                                                "mylayout" is a variable
        if(val===1) {
                                                 assigned with the null
            mylayout= <div style={{'color':'</pre>
                                                                                .'height':'50%'.
                                                      value intially
                                   'width':'
                           <h3>Layout 1</h3>
                     </div>
        else{
            mylayout=<div style={{'color':'red','backgroundColor':'yellow','height':'50%',
                                  'width':'50%'}}>
                           <h3>Layout 2</h3>
                    </div>
```

```
import React, {Component} from 'react';
class Tryconditionalrender extends Component{
   render(){
                                              Compare the variable
       let val=1;
                                             value with equal to 1. if
       let mylayout=null;
                                            this is true then mylayout
       if (val===1) <
                                             variable will have some
           mylayout= <div style={{'color':
                                                                           n','height':'50%',
                                  'width':
                                                  view to display
                          <h3>Layout 1</h3>
                    </div>
       else{
           mylayout=<div style={{'color':'red','backgroundColor':'yellow','height':'50%',
                                 'width':'50%'}}>
                          <h3>Layout 2</h3>
                   </div>
```



```
import React, {Component} from 'react';
class Tryconditionalrender extends Component{
    render(){
        let val=1;
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        if(val===1){
            mylayout= <div style={{'color':'red', 'backgroundColor':'lightgreen', 'height':'50%',
                                    'width':'50%'}}>
                           <h3>Layout 1</h3>
                     </div>
        else{
            mylayout=<div style={{'color':'red','backgroundColor':'yellow','height':'50%',
                                  'width':'50%'}}>
                           <h3>Layout 2</h3>
                    </div>
```





Output

Conditional Render

Layout 1



Lists and Keys

Lists are the way to display items one by one

In react list plays very important role as it provides the facility of displaying items very easily



Demo - Display Array

Create a new component(Listdemo.js)

```
import React, {Component} from 'react';
class Listdemo extends Component{
   array1=[1,2,3,4,5];
   render(){
        return(
            <div>
                <h3>List Demo</h3>
                {ul>{this.array1}
            </div>
export default Listdemo;
```



Demo – Display Array

Create a new component(Listdemo.js)

```
import React, {Component} from 'react';
                                                  Created array of numbers
class Listdemo extends Component{
                                                   and stored in a variable
    array1=[1,2,3,4,5];
                                                          "array1"
    render(){
        return (
            <div>
                                                               Using unordered list the
                <h3>List Demo</h3>
                                                               complete array items are
                {this.array1}
                                                                      displayed
            </div>
export default Listdemo;
```



Demo - Display Array

Create a new component(Listdemo.js)

```
import React, {Component} from 'react';
class Listdemo extends Component{
   array1=[1,2,3,4,5];
   render(){
       return(
          <div>
              <h3>List Demo</h3>
              </div>
export default Listdemo;
```

Output

List Demo

12345



Modify a existing component(Listdemo.js)

```
import React, {Component} from 'react';
class Listdemo extends Component{
   array1=[1,2,3,4,5];
    arrayitem=this.array1.map((a)=>
       <1i>{a}</1i>
   );
   render(){
       return(
            <div>
               <h3>List Demo</h3>
               {ul>{this.array1}
               <h4>Display array using list format</h4>
               {ul>{this.arrayitem}
            </div>
export default Listdemo;
```



Modify a existing component(Listdemo.js)

```
import React, {Component} from 'react';
class Listdemo extends Component{
   array1=[1,2,3,4,5];
   arrayitem=this.array1.map((a)=>
       {li>{a}
   );
   render(){
       return(
           <div>
              <h3>List Demo</h3>
              <h4>Display array using list format</h4>
              {this.arrayitem}
           </div>
export default Listdemo;
```

Created array of numbers and stored in a variable "array1"

"arrayitem" is a variable which will hold each element from array1 and rendered in the format of , using map method

Each item from "arrayitem" is displayed using unordered list

Modify a existing component(Listdemo.js)

```
import React, {Component} from 'react';
class Listdemo extends Component{
   array1=[1,2,3,4,5];
    arrayitem=this.array1.map((a)=>
       <1i>{a}</1i>
   );
    render(){
       return(
            <div>
               <h3>List Demo</h3>
               {ul>{this.array1}
               <h4>Display array using list format</h4>
               {ul>{this.arrayitem}
            </div>
export default Listdemo;
```

Output

List Demo

12345

Display array using list format

- 1
- 2
- 3
- 4
- 5



Modify a existing component(Listdemo.js)

```
import React, {Component} from 'react';
class Listdemo extends Component{
   array1=[1,2,3,4,5];
   arrayitem=this.array1.map((a)=>
       <1i>{a}</1i>
   );
   render(){
       return(
           <div>
               <h3>List Demo</h3>
               <h4>Display array using list format</h4>
               {ul>{this.arrayitem}
           </div>
export default Listdemo;
```

When this code is executed this will display output, but on browser's console it will display error

Warning: Each child in an array or index.js:2177
iterator should have a unique "key" prop.

Check the render method of `Listdemo`. See http
s://fb.me/react-warning-keys for more information.
 in li (at Listdemo.js:6)
 in Listdemo (at App.js:17)
 in div (at App.js:11)
 in App (at index.js:7)



Lists and Keys

Keys plays an important role in react with respect to list element

This gives the facility to identify or track each item in the list

This is also useful to find which item in the list is added, modified or deleted

Demo – Display Array using List with Key

Modify a existing component(Listdemo.js)

```
import React, {Component} from 'react';
class Listdemo extends Component{
   array1=[1,2,3,4,4,5];
   arrayitem=this.array1.map((a,id)=>
       key={id}>{id} - {a}
   );
   render(){
       return(
           <div>
               <h3>List Demo</h3>
               {ul>{this.array1}
               <h4>Display array using list format</h4>
               {ul>{this.arrayitem}
           </div>
export default Listdemo;
```



Demo – Display Array using List with Key

Modify a existing component(Listdemo.js)

```
import React, {Component} from 'react';
class Listdemo extends Component(
   array1=[1,2,3,4,4,5];
   arrayitem=this.array1.map((a,id)=>
       key={id}>{id} - {a}
   );
   render() {
       return(
          <div>
              <h3>List Demo</h3>
              <h4>Display array using list format</h4>
              {ul>{this.arrayitem}
          </div>
export default Listdemo;
```

Created array of numbers and stored in a variable "array1"

id is added here to identify each element uniquely

Id is assigned to key, even though there are repeated items are present in the array, the key will be different for all the items. This way key will help to identify each item uniquely

Demo - Display Array using List with Key

Modify a existing component(Listdemo.js)

```
import React, {Component} from 'react';
class Listdemo extends Component{
   array1=[1,2,3,4,4,5];
   arrayitem=this.array1.map((a,id)=>
       key={id}>{id} - {a}
   );
   render(){
       return(
           <div>
               <h3>List Demo</h3>
               {ul>{this.array1}
               <h4>Display array using list format</h4>
               {ul>{this.arrayitem}
           </div>
export default Listdemo;
```

Output

List Demo

123445

Display array using list format

- 0 1
- 1 2
- 2 3
- 3 4
- 4 4
- 5 5



Activity

- 1. Create Employee component
- 2. Declare employee array in the parent component

```
[ { id : 101, name : 'Jaya', skills : ['Angular', 'Node']}, 
 { id : 102, name : 'Shyam', skills : ['React', 'Node']}, 
 { id : 103, name : 'Jyothi', skills : ['MongoDB', 'Node']}, ... 
]
```

- 1. Pass this names array from parent component to Employee component
- 2. Capture the names array in Employee component and display each item as employee names

MODULE SUMMARY

- Understand how conditional rendering is implemented
- Setting styles in react
- Working with lists
- Using map
- Working with key



THANK YOU

