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## **Study of React Installation and Terminal Commands**

## **Objective:**

To install the node is.

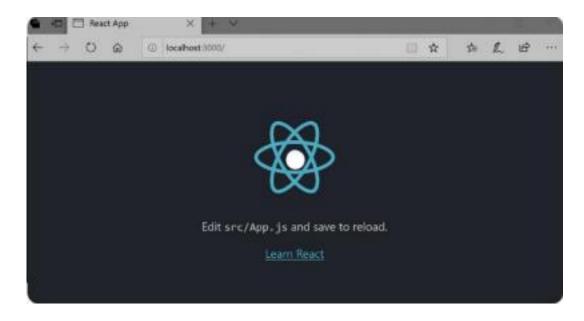
#### System and software tools required

• Visual Studio Code

## **Definitions / Theory / Steps**

- 1. Open the browser in your computer.
- 2. Download the node is from the browser.
- **3.** And set up the node js.
- **4.** Type the command "node -v" to see the version of node and "npm -v" to see the version of npm(Node Package Manager).
- **5.** Open the terminal in VS Code and type the command "npx create-react-app my react" to create the new react app.
- **6.** To start the react app type the command "npm start".
- 7. You can use the command "npm cache clean –force" to clear the cache in react app.
- **8.** Now the react app will open in the browser.

#### React app:



**Ex no:1(b)** 

## **Demonstration of a Stateless Functional Component**

## **Objective**

To Study the Stateless Functional Component.

# System and software tools required

• Visual Studio Code

#### **Description**

A React functional component is a simple JavaScript function that accepts props and returns a React element. After the introduction of React Hooks, writing functional components has become the standard way of writing React components in modern applications.

#### Algorithm

- 1. Create the new js file name it as fcomponent.js.
- **2.** Create the new function component and name it as demo in fcomponent.
- **3.** Inside the function component return the html element.
- **4.** And export the function component demo.
- 5. Now import the function component from fcomponent file.
- **6.** Inside the root.render use the component.
- 7. Now the output will display in the react app.

#### Program

# fcomponent.js:

#### **Index.js:**

import React from 'react';

# **Sample Output**



# Hello

I am Function Component

# Result

Thus the function component is successfully implemented.

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## **Demonstration of Stateful Class Component**

### **Objective**

To Study the Statefull Class Component.

#### System and software tools required

• Visual Studio Code

#### **Description**

A class component is a more featured way to define a React component. It also acts like a function that receives props.

The component has to include the extends React.Component statement, this statement creates an inheritance to React.Component, and gives your component access to React.Component's functions.The component also requires a render() method, this method returns HTML

#### Algorithm

- 1. Create the new js file name it as component.js.
- **2.**Create the new function component and name it as Demo in ccomponent.
- **3.**Inside the render function of the class component Demo return the html element.
  - **4.**And export the class component Demo.
  - 5. Now import the class component from component file.
  - **6**.Inside the root.render use the component.
  - 7. Now the output will display in the react app.

#### **Program**

## ccomponent.js:

# **Index.js:**

# **Sample Output**



# Hello

I am Class Component

# Result

Thus the Class component is successfully implemented.

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### **Implementation of Conditional Rendering using Class Component**

#### **Objective**

To Implement the Conditional Rendering using Class Component.

#### System and software tools required

• Visual Studio Code

## **Description**

A conditional rendering is a piece of content that is displayed or rendered when a predefined condition is met. You can use conditional renderings to control the way visitors view and interact with your website.

# **Algorithm**

- 1. Create the new is file name it as conditional rendering. is.
- 2. Create the new function component and name it as Demo in conditional rendering.
- **3.**Create three functions, changeColor1, changeColor2, changeCount for changing colors of the Buttons and text.
  - **4.**Inside the render function of the class component return the html Button elements.
  - **5.**And export the class component Conditionalrendering
  - **6**. Now import the class component from conditional rendering file.
  - 7. Inside the root.render use the component.
  - **8**. Now the output will display in the react app.

#### Program

# conditionalrendering.js:

```
import React, { Component } from 'react';
import 'bootstrap/dist/css/bootstrap.css';
class Conditionalrendering extends Component {
    state = { count: 0 ,name:"Zero"}
    changeCount(){
    if(this.state.count===0)
    return"Zero";
    else if(this.state.count===10)
    return"Ten";
    else
    return this.state.count;
}
changeColor1(){
    let str="btn btn-";
```

```
if(this.state.count===0){
str+="danger";
else {
str+="success";
return str;
changeColor2(){
let str="btn btn-";
if(this.state.count===10)
str+="danger";
else {
str+="success";
return str;
render() {
return (<div style={{textAlign:'center',padding:50}}>
<h1 style={{padding:100}}> Conditional Rendering:</h1> <button
className={this.changeColor1()}style={{width:100,height:50}} disa
bled={this.state.count===0} onClick={() =>
{ this.setState({ count: this.state.count - 1 }) }}>- </button> <span
style={{padding:50,fontSize:27}}>{this.changeCount()}</span> <b
utton className={this.changeColor2()}
style={{width:100,height:50}}disabled={this.state.count===10} onClick
=\{() => \{ \text{ this.setState}(\{ \text{ count: this.state.count} + 1 \}) \}
}}>+</button> </div>);
}
export default Conditionalrendering;
Index.js:
import React from 'react';
import ReactDOM from 'react-dom/client';
import Conditional from './conditional';
const root =
ReactDOM.createRoot(document.getElementById('root')); root.render
<React.StrictMode>
<Conditional/>
</React.StrictMode>);
```

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# Sample Output

# Conditional Rendering:



Zero



# **Result:**

Thus the conditional rendering is successfully implemented.

Ex	no	:4

Implementation of Communication between Parent and child Components

#### **Objective**

To Implement the Communication between Parent and Child Component.

# System and software tools required

• Visual Studio Code

#### **Description**

In React parent components can communicate to child components using a special property defined by React called as Props. All the components in React will be having this proper defined by default which will hold all the properties as key value pairs that are sent from the parent component.

#### Algorithm

- **1.**Create the new js file names them as parent.js,child.js.
- **2.**Create the new class component and name it as Child in child.js and return the html elements..
  - **3.**Inside the render function of the class component it should return the html element.
  - **4.**And export the class component Child.
  - 5. Now import the class component from child file.
  - **6**.Inside the render function of the parent's class component it should return the child component
  - 7. Now the output will display in the react app.

## **Program**

# parent.js:

```
<h1>Child and Parent Components</h1>
                   <Child parentCallback = {this.handleCallback}/>
                             {name}
                     </div>
              )
       }
export default Parent;
Child.js:
import React from 'react'
class Child extends React.Component{
       onTrigger = (event) => {
              this.props.parentCallback(event.target.myname.value);
              event.preventDefault();
       }
       render(){
              return(
              <div>
                     <form onSubmit = {this.onTrigger}>
                            <input type = "text"</pre>
                   name = "myname" placeholder = "Enter Name"/>
                            <br/>br></br>>
                        <input type = "submit" value = "Submit"/>
                            <br/>br></br>
                     </form>
              </div>
              )
       }
export default Child
Index.js:
import React from 'react';
import ReactDOM from 'react-dom/client';
import Parent from './parentchild';
const root =
ReactDOM.createRoot(document.getElementById('root')); root.render
<React.StrictMode>
<Parentt/>
</React.StrictMode>
);
```

# Sample Output

# Child and Parent Components

Submit Submit

# **Result:**

Thus the conditional rendering is successfully implemented.

Ex no:5	Designing a Registration Form with material UI
---------	--

#### **Objective**

To design a Registration Form with material UI

#### System and software tools required

Visual Studio Code

## **Description**

A react card component is a content container. It incorporates options for images, headers, and footers, a wide variety of content, contextual background colors, and excellent display options.

#### <u>Algorithm</u>

- Create the new function component and name it as a registration.js.
- Inside the function component return the html element.
- And export the function component demo.
- Now import the function component from material ui files.
- Inside the root.render use the component.
- Now the output will display in the react app.

#### Program

```
import * as React from 'react';
import TextField from '@mui/material/TextField';
import Button from '@mui/material/Button';
import Radio from '@mui/material/Radio';
import RadioGroup from '@mui/material/RadioGroup';
import FormControlLabel from '@mui/material/FormControlLabel';
import FormControl from '@mui/material/FormControl';
import FormLabel from '@mui/material/FormLabel';
import Checkbox from '@mui/material/Checkbox';
import FormGroup from '@mui/material/FormGroup';
import Stack from '@mui/material/Stack';
import InputLabel from '@mui/material/InputLabel';
import NativeSelect from '@mui/material/NativeSelect';
import Box from '@mui/material/Box';
import Avatar from '@mui/material/Avatar';
export default function BasicTextFields() {
 return (
  <div><br></br>
   <Stack direction="row" spacing={10}>
     <Avatar src="/broken-image.jpg"/>
```

```
</stack><br></br></br>
   <TextField required id="filled-required"label="Firstname" placeholder="Enter</p>
Firstname"variant="filled"/><br></br>
   <TextField required id="filled-required"label="Lastname" placeholder="Enter</p>
Lastname"variant="filled"/><br></br></br>
   <TextField required id="standard-required"label="Email-</p>
id"variant="standard"/><br></br>
   <TextField required id="standard-
required"label="Password"variant="standard"/><br></br>
   <TextField id="filled-number" label="Age"type="number"InputLabelProps={{shrink:</pre>
true, } \ variant="filled"/><br></br>
   <FormControl>
     <FormLabel id="demo-radio-buttons-group-label">Gender
     < RadioGroup aria-labelled by = "demo-radio-buttons-group-
label"defaultValue="female"name="radio-buttons-group">
     <FormControlLabel value="male" control={<Radio />} label="male" />
     <FormControlLabel value="female" control={<Radio />} label="female" />
     <FormControlLabel value="other" control={<Radio />} label="Other" />
     </RadioGroup>
   </FormControl><br></br></br>
   <Stack component="form" noValidate spacing={3}>
   <TextField id="date"label="DOB"type="date"sx={{ width: 220</pre>
}}InputLabelProps={{shrink: true,}}/>
   </Stack><br>></br>
   <TextField disabled id="standard-disabled"</pre>
label="Disabled"defaultValue="SKCET"variant="standard"/><br></br>
   <Box sx={{ minWidth: 50 }}>
   <FormControl>
    <InputLabel variant="standard" htmlFor="uncontrolled-native">
     Department
    InputLabel>
    <NativeSelect inputProps={{name: 'Department',id: 'uncontrolled-native',}}>
     <option >CSE</option>
     <option>IT</option>
     <option>ECE</option>
     <option>EEE</option>
     <option>MECH</option>
     <option>CIVIL</option>
    </NativeSelect>
   </FormControl>
   </Box><br></br>
   <FormGroup>
     <FormControlLabel control={<Checkbox defaultChecked />} label="I'm not a robot"
/>
   </FormGroup><br>></br>
   <Button className='button'variant='contained' style={{color:'red'}}>Submit
  </div>
 );
```

# **Sample Output:**

# REGISTRATION FORM



# Result

Thus the Program is Executed Successfully.

Ex no:6 Custom Navigation bar using React
---

#### **Objective**

To Design a Custom Navigation bar using React.

#### System and software tools required

• Visual Studio Code

## **Description**

Bootstrap navbar is a horizontal navigation component which apart from traditional, text links, might embed icons, dropdowns, avatars or search forms.

#### **Algorithm**

- Create the navbar.js file.
- Create the new function component and name it as ResponsiveAppBar in navbar. Inside the function component return the html element.
- And export the function component ResponsiveAppBar.
- Now import the function component from navbar file in App.js file.
- Inside the root.render use the component.
- Now the output will display in the react app.

#### **Program**

```
import * as React from 'react';
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import Toolbar from '@mui/material/Toolbar';
import IconButton from '@mui/material/IconButton';
import Typography from '@mui/material/Typography';
import Menu from '@mui/material/Menu';
import MenuIcon from '@mui/icons-material/Menu';
```

```
import Container from
'@mui/material/Container'; import
Avatar from '@mui/material/Avatar';
import Button from '@mui/material/Button';
import Tooltip from '@mui/material/Tooltip';
import MenuItem from
'@mui/material/MenuItem'; import
AdbIcon from '@mui/icons-
material/Adb';
const pages = ['Products', 'Pricing', 'Blog'];
const settings = ['Profile', 'Account', 'Dashboard', 'Logout'];
function ResponsiveAppBar() {
      const [anchorElNav, setAnchorElNav] =
     React.useState(null); const [anchorElUser,
     setAnchorElUser] = React.useState(null);
const handleOpenNavMenu = (event) => {
setAnchorElNav(event.currentTarget);
};
const handleOpenUserMenu = (event) => {
setAnchorElUser(event.currentTarget);
};
```

```
const handleCloseNavMenu = () => {
setAnchorElNav(null);
};
const handleCloseUserMenu = () => {
setAnchorElUser(null);
       };
       return (
       <AppBar position="static">
<Container maxWidth="xl">
        <Toolbar disableGutters>
       <AdbIcon sx={{ display: { xs: 'none', md: 'flex' },
mr: 1 }} /> <Typography
variant="h6" noWrap
component="a"
href="/" sx=\{\{ mr:
       2,
       display: { xs: 'none', md: 'flex' },
       fontFamily: 'monospace',
       fontWeight: 700, letterSpacing:
       '.3rem', color:
       'inherit', textDecoration:
       'none',
       }}
```

#### **SKCET**

```
</Typography>
<Box sx={{ flexGrow: 1, display: { xs: 'flex', md: 'none' } }}><IconButton
size="large"
aria-label="account of current user"
aria-controls="menu-appbar"
ariahaspopup="true"
onClick={handleOpenNavMenu}
color="inherit" >
<MenuIcon />
IconButton>
<Menu id="menuappbar"
anchorEl={anchorElNav}
anchorOrigin={{ vertical:
'bottom', horizontal:
'left',
}}
keepMounted
transformOrigin={{ vertical:
'top', horizontal:
'left',
}}
open={Boolean(anchorElNav)}
onClose={handleCloseNavMenu} sx={{ display: {
xs: 'block', md: 'none' },
```

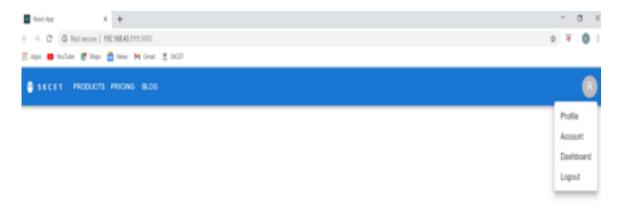
```
}}
>
 \{pages.map((page) => (
<MenuItem key={page}
onClick={handleCloseNavMenu}> <Typography
textAlign="center">{page}</Typography>
</MenuItem>
))}
</Menu>
</Box>
<AdbIcon sx={{ display: { xs: 'flex', md: 'none' },
mr: 1 }} /> <Typography
variant="h5" noWrap
component="a"
href="" sx={{ mr:
2,
display: { xs: 'flex', md: 'none' },
flexGrow: 1, fontFamily: 'monospace',
fontWeight: 700, letterSpacing:
'.3rem',
color: 'inherit',
textDecoration: 'none',
}}
SKCET
```

```
</Typography>
<Box sx={{ flexGrow: 1, display: { xs: 'none', md:</pre>
'flex' } }} > {pages.map((page) => (
<Button
key={page}
onClick={handleCloseNavMenu}
sx={{ my: 2, color: 'white', display: 'block' }}
>
{page}
</Button>
))}
</Box>
<Box sx={{ flexGrow: 0 }}>
<Tooltip title="Open settings">
<IconButton
                    onClick={handleOpenUserMenu}
sx = \{ \{ \quad p \colon \quad 0 \quad \} \} > \quad < Avatar \quad alt = "Remy \quad Sharp"
src="/static/images/avatar/2.jpg" /> </IconButton>
</Tooltip>
<Menu sx={{ mt:
       '45px' }} id="menuappbar"
anchorEl={anchorElUser}
       anchorOrigin={{ vertical:
       'top', horizontal: 'right',
        }}
```

```
keepMounted
transformOrigin={{ vertical:
       'top', horizontal:
       'right',
       }}
open={Boolean(anchorElUser)}
onClose={handleCloseUserMenu}
{settings.map((setting) => (
<MenuItem key={setting}
onClick={handleCloseUserMenu}> <Typography
textAlign="center">{setting}</Typography> </MenuIt
em>
       ))}
</Menu>
</Box>
       </Toolbar>
</Container>
</AppBar>
       );
}
export default ResponsiveAppBar;
App.js
import React from 'react'
import Hello from'./over';
```

# **Output**

export default App



# Result

Thus the program is Executed Successfully.

Ex no:7	Implementation of React component to handle HTTP requests
---------	---

#### **Objective**

To implement a React component to handle HTTP requests.

# System and software tools required

• Visual Studio Code

## **Description**

Most useful React applications involve interacting with a server to load and persist data. To do this on the web, we use HTTP requests with the browser's built-in fetch API (or you may use some other open source library that's built on top of this API).

#### Algorithm

- Create the fetch.js file.
- Create the new function component and name it as FectchAPI in fetch.
- Inside the function component return the html element.
- And export the function component FetchAPI.
- Now import the function component from FetchAPI file in fetch.js file.
- Inside the root.render use the component.
- Now the output will display in the react app.

#### **Program**

# fetch.js:

### **Output**

Leanne Graham, 1, Sincere@april.biz
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Clementine Bauch, 3, Nathan@yesenia.net
Patricia Lebsack, 4, Julianne.OConner@kory.org
Chelsey Dietrich, 5, Lucio\_Hettinger@annie.ca
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Kurtis Weissnat, 7, Telly.Hoeger@billy.biz
Nicholas Runolfsdottir V, 8, Sherwood@rosamond.me
Glenna Reichert, 9, Chaim\_McDermott@dana.io
Clementina DuBuque, 10, Rey.Padberg@karina.biz

#### Result

Thus the program is executed successfully.

Ex no:8

#### Implementation of a Dropdown component using React

#### **Objective:**

To implement a Drop-down component using React.

#### Algorithm

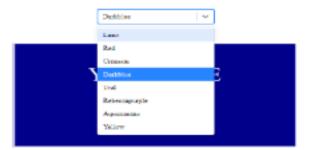
- 1.Create a react-app using npx create-react-app appname.
- 2. Give cd appname and npm start to run the app.
- 3. Create a Dropdown.js and Dropdown.css in the src folder.
- 4. Create a dropdown input UI in the Dropdown.js file.
- 5. Apply the required style in Dropdown.css file.
- 6. Create a dropdown menu UI in the Dropdown.js file.
- 7. Open/Close dropdown menu handler in Dropdown.js file.
- 8. Handle select/deselect dropdown item in Dropdown.js.
- 9.Next create a Multi Drop-down select.
- 10.Execute a Callback function with the selected values so that the App can do other stuff. 11.Import the Dropdown.js file in the App.js file and include the file inside <div> tag.

```
Coding:
App.js
import Dropdown from "./main";
export default function App() {
return (
<div className="App">
<Dropdown placeHolder="Select..." />
</div>
);
Dropdown.css
.dropdown-container {
text-align: left;
border: 2px solid rgb(57, 19, 196);
position: relative;
border-radius: 5px;
.dropdown-input {
padding: 20px;
display: flex;
```

```
align-items: center;
justify-content: space-between;
user-select: none;
Dropdown.js
import * as React from 'react';
const App = () => {
return (
<div>
<select>
<option value="fruit">Fruit</option</pre>
<option value="vegetable">Vegetable</option>
<option value="meat">Meat</option>
<option value="Groceries">Groceries</option>
<option value="Snacks">Snacks</option>
<option value="Footwears">Footwears
</select>
</div>
);
};
export default App;
```

Output:

# UI-COLOR CHANGER



## **Result:**

Hence a Drop down component using React is successfully implemented.

# Implementation of Routing in React

# **Objective**

To implement Routing in React using react-router-dom.

# Algorithm

- 1.Create a react-app using npx create-react-app appname.
- 2. Give cd appname and npm start to run the app everytime.
- 3.Install react-router-dom using npm command.
- 4.In App.js import BrowserRouter,Routes,Route,Router from react-router-dom. 5.Inside function App() return statement open the BrowserRouter tag.
- 6.Inside the BrowserRouter tag give their specified router inside the <router> tag. 7.Inside the <router> tag specify the Route path and element using <Route Path> tag. 8.Run the app using npm start.

# App.js

```
import './mainpage.css';
import './returnpage.css';
import Mainpage from './mainpage'
import Returnpage from './returnpage'
import { BrowserRouter as Router, Route, Routes } from 'react-
router-dom'; function App() {
 return(
  <Router>
   <div className='App'>
    <Routes>
      <Route exact path='/' element={<Mainpage />}></Route>
      <Route exact path='/mainpage' element={<Mainpage />}></Route>
      <Route exact path='/returnpage' element={<Returnpage</pre>
    />}></Route> </Routes>
   </div>
  </Router>
 )
export default App;
```

#### App.test.js

```
import React from 'react';
import ReactDOM from
'react-dom'; import App
from './App';
it('renders without crashing', () =>
{ const div =
document.createElement('div');
ReactDOM.render(<App />, div);
});
Index.css
html, body, #root, #root>div {
 height: 100%;
}
body {
 margin: 0;
 padding: 0;
 font-family: sans-serif;
 height: 100%;
Index.js
import React from 'react';
import ReactDOM from
'react-dom'; import App
from './App';
import './index.css';
ReactDOM.render(
 <App />,
 document.getElementB
yId('root'));
Mainpage.js
//import React from 'react';
import "./mainpage.css"
import "./returnpage.css"
import { Link } from "react-router-dom";
const Mainpage = () = > \{
  return (<>
```

```
<div>
    <h1>This is Mainpage</h1>
    <Link to="/returnpage" className="v2_21">Next Page</Link>
     </div>
     </>
    );
   };
export default Mainpage;
mainpage.css
.v2 21 {
 top: 100px;
 left: 50vh;
 position: absolute;
 font-family: Inter;
 font-weight: Bold;
 font-size: 30px;
 text-align: center;
Returnpage.js
import "./mainpage.css"
import "./returnpage.css"
import { Link } from "react-router-dom";
const Returnpage = () => {
  return (<>
    <div>
      <h1>This is Next Page</h1>
     <Link to='/mainpage' class="v2 21">Back to mainpage</Link>
     </div>
     </>
    );
   };
export default Returnpage;
returnpage.css
.v2_21 {
```

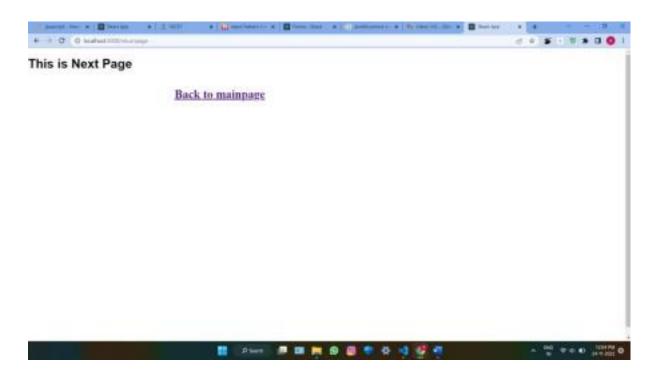
top: 100px; left: 50vh;

position: absolute; font-family: Inter; font-weight: Bold; font-size:

30px;

text-align: center; }

# Output:



# **Result:**

Hence Routing is successfully implemented in React.

#### **Objective:**

To implement a form Validation in React.

#### Algorithm:

- 1.Create a react-app using npx create-react-app appname.
- 2. Give cd appname and npm start to run the app.
- 3. First, we need to update the App.jsx and App.css files.
- 4. The App Component will render a headline and the LoginForm Component it will create in a moment.
- 5. Create the login form component.
- 6. The login form utilizes the usestate hook to Store the state for the form.
- 7. The form State is defined, we have the onupdate field function, which is passed to a input field as an onchange handler.
- 8. Further, the onSubmitForm method will be executed when the form is Submitted.
- 9. Finally, the LoginForm Component render a form that comprises three fields-email, Password and Confirm password.
- 10. We need to install the clsx helper. Run the Command

below in the terminal. \$ npm install clsx

- 11.Place all validators in the validators is file.
- 12. We are going to put all the Validation logic in a custom hook called useloginForm Validator. 13. We have the ValidateForm function. It accepts an object with four properties.

form, field, errors, force TouchErrors.

- 14. Lastly, the SetErrors method is called with the Validation results and object with isValid flag and errors are returned.
- 15. After the validate Form function, we have the onBlur Field function. It checks if the field that was blurred is already dirty.
- 16. We also had to update both on Update Field and on Submit Form functions

#### Coding:

1. Form validation in react Form.js import React from 'react'; import './form.css'; class RegisterForm extends React.Component { constructor() {

```
super(); this.state = {
fields: {},
errors: {}
this.handleChange = this.handleChange.bind(this);
this.submituserRegistrationForm =
this.submituserRegistrationForm.bind(this);
};
handleChange(e) {
let fields = this.state.fields; fields[e.target.name] = e.target.value;
this.setState({ fields
});
}
submituserRegistrationForm(e) { e.preventDefault();
if (this.validateForm()) { let fields = {};
fields["username"] = ""; fields["mobileno"] = "";
fields["password"] = ""; this.setState({fields:fields}); alert("Form
submitted"); }
}
validateForm() {
let fields = this.state.fields; let errors = {};
let formIsValid = true; if (!fields["username"]) {
formIsValid = false;
errors["username"] = "*Please enter your username.";
if (typeof fields["username"] !== "undefined") {
if (!fields["username"].match(/^[a-zA-Z]*$/)) {
formIsValid = false; errors["username"] = "*Please enter
alphabet characters only.";
if (!fields["emailid"]) { formIsValid = false;
errors["emailid"] = "*Please enter your email-ID.";
if (!fields["mobileno"]) { formIsValid = false;
errors["mobileno"] = "*Please enter your mobile no.";
if (typeof fields["mobileno"]!== "undefined") { if (!fields["mobileno"].match(/^[0-
9[\{10\}\]) { formIsValid = false;
errors["mobileno"] = "*Please enter valid mobile no.";
```

```
}
}
if (!fields["password"]) { formIsValid = false;
errors["password"] = "*Please enter your password.";
}
if (typeof fields["password"] !== "undefined") {
if (!fields["password"].match("^(?=.*[a-z])(?=.*[A-Z])(?=.*[0-
9])(?=.*[!@#\$%\^&\*])(?=.{8,})") { formIsValid = false;
errors["password"] = "*Please enter secure and strong password.";
}
}
this.setState({ errors: errors
});
return formIsValid;
}
render() { return (
<div id="main-registration-container">
<div id="register">
<h3>Registration page</h3>
<form method="post" name="userRegistrationForm" onSubmit=</pre>
{this.submituserRegistrationForm} >
<label>Name</label>
<input type="text" name="username" value={this.state.fields.username}</pre>
onChange={this.handleChange} />
<div className="errorMsg">{this.state.errors.username}</div>
<label>Mobile No:</label>
<input type="text" name="mobileno" value={this.state.fields.mobileno}</pre>
onChange={this.handleChange} />
<div className="errorMsg">{this.state.errors.mobileno}</div>
<label>Password</label>
<input type="password" name="password"</pre>
value={this.state.fields.password} onChange={this.handleChange}
/>
<div
className="errorMsg">{this.state.errors.password}</
div> <input type="submit" className="button"
value="Register"/> </form>
</div>
</div>
);
```

```
}
export default RegisterForm;
App.js
import './App.css';
import RegisterForm from '.form'; function App() {
return (
<div className="App">
<RegisterForm/>
</div>
);
export default App;
CSS
#register, #login {
width: 300px;
border: 1px solid #d6d7da; padding: 0px 15px 15px 15px; border-
radius: 5px; font-family: arial; line-height: 16px; color: #333333;
font-size: 14px; background: #ffffff; margin: 100px auto;
form label, form input { display: block;
margin-bottom: 10px; width: 90%
}
form input { padding: 10px;
border: solid 1px #BDC7D8;
}
.button {
background-color: #00BFFF; border-color: #3ac162; font-weight: bold; padding: 12px
15px; color: #ffffff;
}
.errorMsg { color: #cc0000;
margin-bottom: 12px;
}
.sucessMsg { color: #6B8E23;
```

margin-bottom: 10px;

# **OUTPUT**



# **Result:**

Hence form validation is implemented in React.