

Internet Programming and Web Technologies (CSE2015)

LAB

Digital Assignment – 4

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Reg No. 19BCT0214

SLOT No: L51 + L52

1. Develop a webpage using React JS online libraries to list your achievements or goals.

Code in 19BCT0214_q1.html file:

```
<html>

<head>

  <title>19BCT0214 Dinesh B S</title>

</head>

<script crossorigin src="https://unpkg.com/react@17/umd/react.production.min.js"></script>

<script crossorigin src="https://unpkg.com/react-dom@17/umd/react-dom.production.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/babel-standalone/6.25.0/babel.min.js"></script>

<script type="text/babel">

function NameAndIntro(){

  return(

    <div>

      <h2>Hi! I'm Dinesh</h2>

      <p>BTech CSE Student at Vellore Institute of Technology</p>

      <Achievements content="Achievement 1 "/>

      <Achievements content="Achievement 2 "/>

      <Achievements content="Achievement 3 "/>

      <Achievements content="Achievement 4 "/>

    </div>

  )

}

class Achievements extends React.Component{

  render(){

    return(
```

```
        <div style={{border:"1px solid blue",padding:'10px',margin:'10px',borderRadius:'5px',
width:'20%'}}>{this.props.content}</div>

    )
  }
}

ReactDOM.render(<NameAndIntro/>,document.getElementById("root"));

</script>

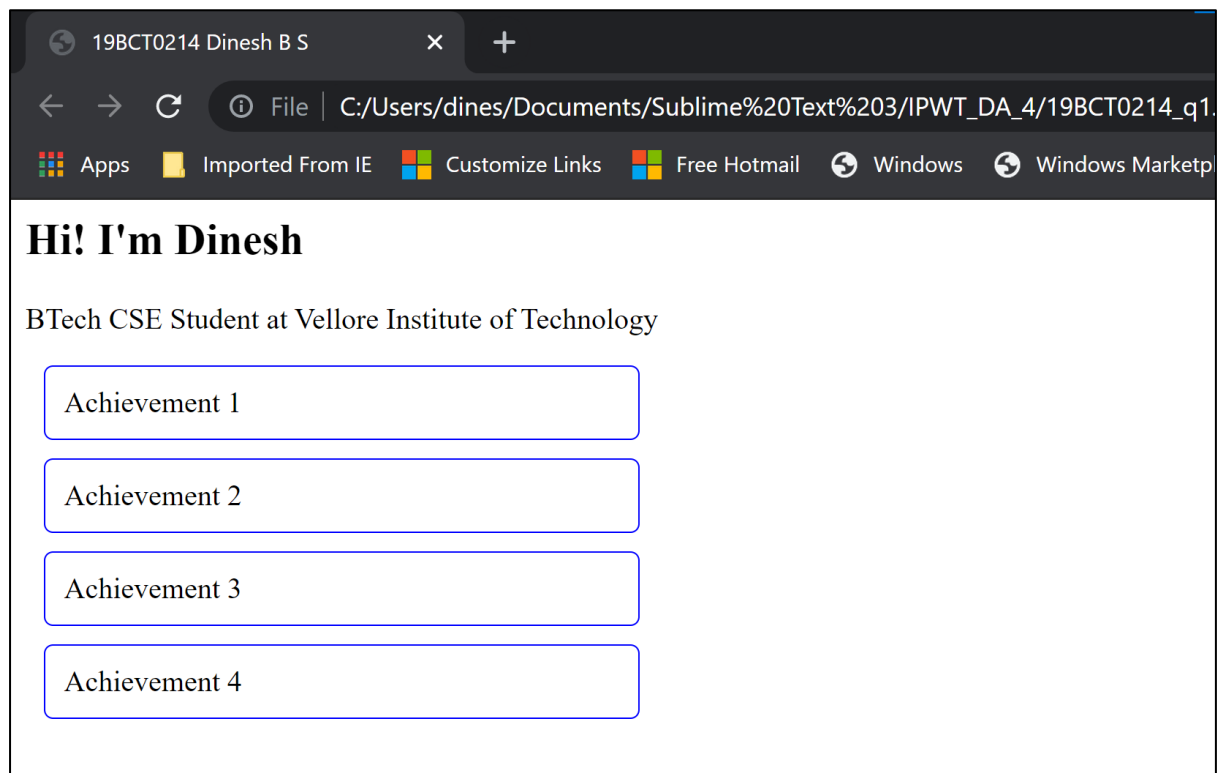
<body>

    <div id="root"></div>

</body>

</html>
```

Output:



2. Develop a react app in NodeJS environment for personal blog.

It should uses React concepts:

- react routes
- react form with all type of basic elements
- basic form validation
- display form contents

Code in index.js file:

```
import React from 'react';
import ReactDOM from 'react-dom';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';
import Form from './components/formvalidate';
import About from './components/about';
import Contact from './components/contact';
import NotFound from './components/notfound';
import {
  BrowserRouter as Router,
  Route,
  Link,
  Switch
} from 'react-router-dom';

const routing=(
  <Router><div><ul>
    <li> <Link to='/'>Form</Link></li>
    <li> <Link to='/about'>About Me</Link></li>
    <li> <Link to='/contact'>Contact Me</Link></li></ul>
```

```
<Switch>

  <Route exact path="/" component={Form}/>

  <Route path="/about" component={About}/>

  <Route path="/contact" component={Contact}/>

  <Route component={NotFound}/>

</Switch></div></Router>

);

ReactDOM.render(routing, document.getElementById('root'));
```

Code in formvalidate.js file:

```
import React from 'react';

class FormValidation extends React.Component {

  constructor(props) {

    super(props);

    this.state = { username: 'not defined', age: "not defined", errorMessageName: "",
errorMessageAge: "", gender: 'not defined', course: 'none', desc: 'none', displayName: 'not defined',
displayAge: "not defined", displayGender: 'not defined', displayCourse: 'none', displayDesc: 'none' };

  }

  onSubmitHandler = (event) => {

    event.preventDefault();

    this.setState({displayName: this.state.username});

    this.setState({displayAge: this.state.age});

    this.setState({displayGender: this.state.gender});

    this.setState({displayCourse: this.state.course});

    this.setState({displayDesc: this.state.desc});

  }

  myChangeHandler = (event) => {

    let nam = event.target.name;

    let val = event.target.value;

    let err = "";

    let errName = "";
```

```
let validname = new RegExp('^[a-zA-Z]{3,15}$');

if(nam === "username") {
    if(!validname.test(val)) {
        errName = <strong>Your name must be alphabets between 3 and
10</strong>
    }
}

if(nam === 'age') {
    if(!Number(val)) {
        err = <strong>Your age must be a number</strong>;
    }
}

this.setState({[nam]: val});
this.setState({errorMessageAge: err});
this.setState({errorMessageName: errName});

if(nam === "gender")
    this.setState({gender: event.target.value});

if(nam === "myCourse")
    this.setState({course: event.target.value});

if(nam === "desc")
    this.setState({desc: event.target.value});
}

render() {
    return (
        <div>
            <form onSubmit={this.onSubmitHandler}>
                Name <input type='text' name='username'
onChange={this.myChangeHandler}/>{this.state.errorMessageName}<br/>
                Age <input type='text' name="age" onChange={this.myChangeHandler}/>
{this.state.errorMessageAge}<br/>
                Gender <input type='radio' name='gender' value='Male'
checked={this.state.gender === "Male"} onChange={this.myChangeHandler}/> Male
            </form>
        </div>
    );
}
```

```
        <input type='radio' name='gender' value='Female'
checked={this.state.gender === "Female"} onChange={this.myChangeHandler}/> Female <br />
        Course <select name='myCourse' onChange={this.myChangeHandler}>
        <option value="None">None</option>
        <option value="CSE">CSE</option>
        <option value="ECE">ECE</option>
        <option value="ECE">EEE</option>
        <option value="ECE">Chemical</option>
        <option value="ECE">Civil</option>
        </select>
        Description <textarea name="desc"
onChange={this.myChangeHandler}/><br/>

        <input type="submit"/>
    </form>

    <br /> <br /> <br />
    <strong>Your details after the latest submission of the form are</strong>
    <p>Your name is {this.state.displayName}</p>
    <p>Your age is {this.state.displayAge}</p>
    <p>Your gender is {this.state.displayGender}</p>
    <p>Your selected course is {this.state.displayCourse}</p>
    <p>Your description is "{this.state.displayDesc}"</p>
</div>

    );
}
}

export default FormValidation;
```

Code in about.js file:

```
import React from 'react';

function About () {

    return (

        <div>

            <h2> This portal is created by Dinesh B S - 19BCT0214</h2>

            Find my profile at:

            <a href="https://www.linkedin.com/in/dinesh-b-s-197983192/">

                Developer/Coding Profile

            </a>

        </div>

    );

}

export default About;
```

Code in contact.js file:

```
import React from 'react';

function Contact () {

    return (

        <center>

            <address>

                You can find me here:<br />

                <b>Dinesh B S - 19BCT0214</b><br />

                BTech CSE student with Specialization in IOT,

                School - SCOPE <br />

                Vellore Institute of Technology, Vellore-632014<br />

                <a href="https://www.linkedin.com/in/dinesh-b-s-197983192/">

                    Contact

                </a>

            </address>

        </center>

    );

}
```



```
        </center>

    );

}

export default Contact;
```

Code in notfound.js file:

```
import React from 'react';

function NotFound () {

    return <h1>Dinesh, your request could not be processed</h1>;

}

export default NotFound;
```

Output:

Form page:

19BCT0214 - React App

localhost:3000

- [Form](#)
- [About Me](#)
- [Contact Me](#)

Name

Age

Gender ☐ Male ☐ Female

Course Description

Your details after the latest submission of the form are

Your name is not defined

Your age is not defined

Your gender is not defined

Your selected course is none

Your description is "none"

Validating name:

The screenshot shows a web browser window with the title "19BCT0214 - React App" and the address bar displaying "localhost:3000". The browser's taskbar includes icons for Apps, Imported From IE, Customize Links, Free Hotmail, Windows, Windows Marketpl..., Windows Media, Imp TB, Project, and IP. The web page contains a navigation menu with links: [Form](#), [About Me](#), and [Contact Me](#). Below the menu is a form with the following fields: "Name" (containing "Di"), "Age" (containing "19"), "Gender" (with "Male" selected), "Course" (a dropdown menu showing "CSE"), and "Description" (a text area containing "I'm an App developer"). A "Submit" button is located below the form. A red error message is displayed next to the Name field: "Your name must be alphabets between 3 and 10". Below the form, a section titled "Your details after the latest submission of the form are" displays the following feedback messages: "Your name is not defined", "Your age is not defined", "Your gender is not defined", "Your selected course is none", and "Your description is 'none'".

Validating age:

The screenshot shows the same web browser window as before, but with the "Age" field now containing "ssdf". A red error message is displayed next to the Age field: "Your age must be a number". The "Name" field still contains "Dinesh". The "Gender" field still has "Male" selected. The "Course" dropdown still shows "CSE", and the "Description" text area still contains "I'm an App developer". The "Submit" button remains below the form. The feedback section below the form, titled "Your details after the latest submission of the form are", now displays: "Your name is not defined", "Your age is not defined", "Your gender is not defined", "Your selected course is none", and "Your description is 'none'".

Details are shown when the form is submitted:

• [Form](#)

• [About Me](#)

• [Contact Me](#)

Name

Age

Gender ☒ Male ☐ Female

Course Description

Your details after the latest submission of the form are

Your name is Dinesh

Your age is 19

Your gender is Male

Your selected course is CSE

Your description is "I'm an App developer"

Implemented Routes:

About page:

• [Form](#)

• [About Me](#)

• [Contact Me](#)

This portal is created by Dinesh B S - 19BCT0214

Find my profile at: [Developer/Coding Profile](#)

Contact page:

