**Department of Computing**

**CS-213: Advanced Programming**

**Class: BSCS 7A**

**Lab 08: React JS**

**Date: 07 November, 2019**

**Time: 10:00-01:00pm & 02:00-05:00pm**

**Instructor: Dr. Sidra Sultana**

**Lab Engineer: Ms. Ayesha Asif**

**Objectives**

This lab will get students familiar with the ReactJS states and creating a timer application.

**Tasks:**

**Welcome.js**

import React, { Component } from 'react';

class welcome extends Component{

state= {

message: 'welcome visitor'

}

changeMessage = ()=>{

this.setState({

message:'thank you for subscribing'

})

}

render(){

return(

<div>

<h1>{this.state.message}</h1>

<button onClick={()=>this.changeMessage()}>Subscribe</button>

</div>

)

}

}

export default welcome;

**Counter.js**

import React, { Component } from 'react';

class Counter extends Component{

state={

count:0

}

Increment = ()=>{

this.setState({

count : this.state.count + 1

})

}

render(){

return(

<div>

<h1>Counter - {this.state.count}</h1>

<button onClick={()=>this.Increment()}>Increment</button>

</div>

)

}

}

export default Counter;

**Index.js**

import React, { Component } from 'react';

import ReactDOM from 'react-dom';

import Welcome from './message';

import Counter from './counter';

class App extends Component {

state = {

minutes : 0,

seconds: 0

}

minuteHandler = (event)=>{

this.setState({

minutes : event.target.value,

seconds : event.target.value\*60

});

}

timer = ()=>{

if(this.state.seconds > 0){

this.setState((prevState) => ({

seconds : prevState.seconds -1,

minutes: Math.floor((prevState.seconds -1) / 60)

}))

}

}

Starttimer = () =>{

setInterval(()=>{

this.timer()

},1000)

}

render(){

return(

<div>

<h3>Enter your desired Input</h3>

<input type="number" onChange={this.minuteHandler}/>

<button onClick={()=>this.Starttimer()}>START</button>

<br/>

<h1>{this.state.minutes}:{this.state.seconds % 60}</h1>

<Welcome />

<Counter/>

</div>

)

}

// componentDidMount(){

// setInterval(this.timer(),1000)

// }

}

ReactDOM.render(<App />, document.getElementById('root'));

