1)RECT ROUTER

Index.js code

import React from 'react';

import ReactDOM from 'react-dom/client';

import App from './App'

const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(<App/>);

App.js

import React from 'react';

import Classprops from "./Classprops";

import Functionprops from "./Functionprops";

class App extends React.Component{

render() {

return (

<div>

<Classprops name="Learner1" place="Bagepalii"></Classprops>

<p>Child Component</p>

<Classprops name="Learner2" place="Banglore"></Classprops>

<button>Click</button>

<Classprops name="Learner3" place="Mysore"></Classprops>

<Functionprops name="Learner4" place="Madikeri"/>

</div>

);

}

}

export default App;

Functionprops.js

import React from "react";

function Functionprops(props) {

return (

<div>

<h3>This is fu<h3>This is functional component</h3>

<h3>

Hello {props.name} from {props.place} Welcome to reactjs props

</h3>

</div>

);

}

export default Functionprops;

Classprops.js

import React, { Component } from 'react';

class Classprops extends Component {

render() {

return (

<div>

<h1>Hello {this.props.name} from {this.props.place} Welcome to react props</h1>

<p>{this.props.children}</p>

</div>

);

}

}

export default Classprops;

2)login page

import React from 'react';

import ReactDOM from 'react-dom/client';

import {useState} from "react";

function Rform()

    {

    const [name,setName]=useState('');

    const [submit,setSubmitted]=useState(false);

    const handleName=(e)=>

    {

        setName(e.target.value);

    }

    const handleSubmit=(e)=>

    {

        e.preventDefault();

        setSubmitted(true);

    }

    const success=()=>

    {

        if(submit)

        return ( <div>

            <h1>user {name} Submitted successfully</h1>

            </div>

            );

    }

    return(

        <div>{success()}

            <form>

                <label>name</label>

                <input type="text" onChange={handleName} value={name} /><br></br>

                <br></br>

                <button type="submit" onClick={handleSubmit}> submit</button>

                </form>

        </div>

    );

 }

Maven is a popular open-source build tool developed by the Apache Group to build, publish, and deploy several projects at once for better project management.

**Rest ApI code----SPRING BOOT**

**1>Use Spring initialiser to download the basic files.**

**2>add dependencies >**

**Spring web**

**Spring Dev tools**

3>const root=ReactDOM.createRoot(document.getElementById('root'));

root.render(<Rform/>);

package com.example.Hello;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.RestController;

@RestController

public class Controler {

@GetMapping("/hello")

public String sayHello() {

return "hello everyone ";

}

}

**Basic Spring Program**

**1>JRE-SE-1.6**

**2>Include jar files**

**\*com.springsource.org.apache.commons.logging-1.1.1**

**\*org.springframework.beans-3.0.1.RELEASE-A**

**\*org.springframework.context-3.0.1.RELEASE-A**

**\*org.springframework.core-3.0.1.RELEASE-A**

**STUDENT.JAVA**

**package** com.FirstSpring;

**public** **class** Student {

**private** String name;

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** **void** displayInfo(){

System.***out***.println("Hello: "+name);

}

}

**TEST.JAVA**

package com.FirstSpring;

import org.springframework.beans.factory.BeanFactory;

import org.springframework.beans.factory.xml.XmlBeanFactory;

import org.springframework.core.io.ClassPathResource;

import org.springframework.core.io.Resource;

public class Test {

public static void main(String[] args) {

Resource resource=new ClassPathResource("applicationContext.xml");

BeanFactory factory=new XmlBeanFactory(resource);

Student student=(Student)factory.getBean("studentbean");

student.displayInfo();

}

}

**APPLICATION CONTEXT XML FILE**

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<beans

xmlns=*"http://www.springframework.org/schema/beans"*

xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xmlns:p=*"http://www.springframework.org/schema/p"*

xsi:schemaLocation=*"http://www.springframework.org/schema/beans*

[*http://www.springframework.org/schema/beans/spring-beans-3.0.xsd*](http://www.springframework.org/schema/beans/spring-beans-3.0.xsd)*"*>

<bean id=*"studentbean"* class=*"com.FirstSpring.Student"*>

<property name=*"name"* value=*"everyone"*></property>

</bean>

</beans>