Assignment No: 8

Design and develop a responsive website for an online book store using REACT, Springboot and MySQL having 1) Home Page2) Login Page 3) Catalogue Page: 4) Registration Page: (database)

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Code: -

Spring Boot –

Controller:

```
package com.example.MovieApis.movie;



import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.RestController;

import com.example.MovieApis.movie.Repository.UserInfoRepository;
import com.example.MovieApis.movie.model.TrialModel;
import com.example.MovieApis.movie.model.UserEntity;
import com.example.MovieApis.movie.model.UserInfo;

@RestController
@CrossOrigin
public class Controller {
    @Autowired
    UService service;
    @Autowired
    UserService userService ;

    @GetMapping("/getMovies")
    public Object getMovies()
    {
        return service.getMovies() ;
    }
    @GetMapping("/hello")
    public String hello(@RequestParam(value = "name", defaultValue = "World")
String name) {
      return String.format("Hello %s!", name);
    }

    @PostMapping("/PostCheck")
        public TrialModel PostCheck(@RequestBody TrialModel movie)
        {
            return movie;
        }

    @PostMapping("/SaveUser")
    public UserEntity saveUser(@RequestBody UserEntity  u)
    {   System.out.println(u.getBook_name());
        System.out.println(u.getId());
        System.out.println(u);
        //MovieRepository.save(u);
        return service.save(u);
    }
    @PostMapping("/SaveCredential")
    public UserInfo saveCredential(@RequestBody UserInfo  u)
    {
        System.out.println(u.getName());
        System.out.println(u.getPassword());
        System.out.println(u.toString()) ;
        return service.saveCredentials(u);
    }
    @PostMapping("/CheckAccess")
    public boolean checkAccess(@RequestBody UserInfo u)
    {
        return service.login(u.getName() ,u.getPassword()) ;
    }
}
```

Service:

```
package com.example.MovieApis.movie;

import java.util.ArrayList;
import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
```

```java
import com.example.MovieApis.movie.Repository.UserEntityRepository;
import com.example.MovieApis.movie.Repository.UserInfoRepository;
import com.example.MovieApis.movie.model.TrialModel;
import com.example.MovieApis.movie.model.UserEntity;
import com.example.MovieApis.movie.model.UserInfo;

@Service
public class UService {
    @Autowired
    UserEntityRepository movieRepository ;
    @Autowired
    UserInfoRepository userInfoRepository ;

    public Object getMovies(){


        List<TrialModel> movies = new ArrayList<>() ;

        movies.add(new TrialModel("Mirage","" , 9.8 , ""));
        movies.add(new TrialModel("avenger","",8.2,""));

        return movies ;
    }
    public UserEntity save(UserEntity u ){
        movieRepository.save(u);
        return u;
    }

    public UserInfo saveCredentials(UserInfo u ){
        userInfoRepository.save(u) ;
        return u ;
    }

    public boolean login(String name  , String Password)
    {
        Iterable<UserInfo> list = userInfoRepository.findAll();
        for( UserInfo user :list )
        {


            if(user.getName().equals(name) &&
user.getPassword().equals(Password)){
                return  true ;
            }

        }
        return false ;
    }


}
```

UserEntity Repository:

```
package com.example.MovieApis.movie.Repository;



import org.springframework.data.repository.CrudRepository;

import com.example.MovieApis.movie.model.UserEntity;

public interface UserEntityRepository extends CrudRepository<UserEntity, Long>
{


}
```

UserInfo Repository:

```
package com.example.MovieApis.movie.Repository;



import org.springframework.data.repository.CrudRepository;


import com.example.MovieApis.movie.model.UserInfo;


public interface UserInfoRepository extends CrudRepository<UserInfo, Long> {


}
```

UserEntity Model:

```
package com.example.MovieApis.movie.model;
```

```
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;

@Entity
public class UserEntity {

    @Id
    @GeneratedValue(strategy=GenerationType.IDENTITY)
    private long id ;

    //@Column
    private String Book_name ;

    public String getBook_name(){
        return Book_name ;
    }
    public void setBook_name(String Book_name){
        this.Book_name = Book_name ;
    }
    public long getId() { return id ;}
    public void setId(long Id) { this.id = Id ; }




}
```

UserInfo model

```
package com.example.MovieApis.movie.model;





//import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;

@Entity
public class UserInfo {

    @Id
    @GeneratedValue(strategy=GenerationType.IDENTITY)
    private long id ;

    //@Column
    private String Name ;
    private String Password;

    public String getName(){
        return Name ;
    }
    public void setName(String Name){
        this.Name = Name ;
    }
    public String getPassword(){
        return Password ;
    }
    public void setPassword(String Password){
        this.Password = Password ;
    }
    public long getId() { return id ;}
    public void setId(long Id) { this.id = Id ; }

    @Override
    public String toString()
    {
        return this.Name +' '+ this.Password ;
    }

}
```

React:

App.js

```
import logo from './logo.svg';
import Header from './Header';
import Content from './Content';
import LoginPage from './LoginPage' ;
import './App.css';
import { BrowserRouter,Routes,Route } from 'react-router-dom';

function App() {
  return (
    <div className="App">
      <BrowserRouter>
        <Routes>
          <Route path="/" element={<LoginPage/>} />
          <Route path="/content" element={<Content/>} />
        </Routes>
      </BrowserRouter>
    </div>
  );
}

export default App;
```

LoginPage.js :

```
import React,{useEffect, useState} from 'react';
import { useNavigate } from 'react-router-dom';

function LoginPage(){

    const [name,setEmail] = useState();
    const [password,setPassword] = useState();
    const navigate = useNavigate("");

    function Email(event){
        setEmail(event.target.value);
    }

    function Password(event){
        setPassword(event.target.value);
    }

    async function handleLogin(){
        let result = await fetch("http://localhost:8080/CheckAccess",{
            method:"post",
            body:JSON.stringify({name,password}),
            headers:{'Content-Type': 'application/json'}
        });
        result = await result.json();
        console.warn(result);
        if(result){
            navigate("/content")
        }else{
            alert("Please enter correct details");
        }
    }

    return (
        <div className='login'>
            <h1>Login</h1>
            <input
```

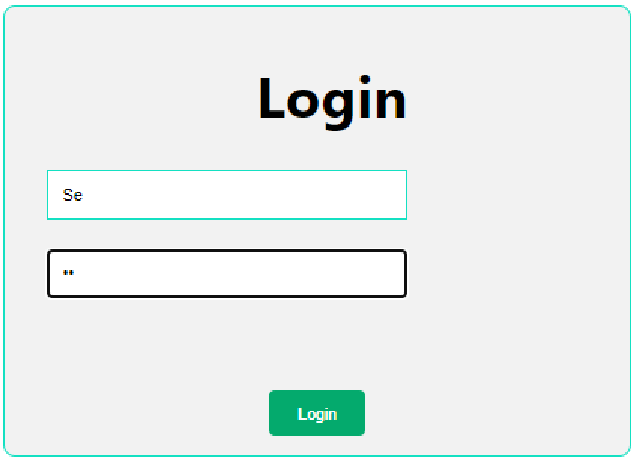
```
                type="email"
                className='inputBox'
                placeholder="Email"
                value={name}
                onChange={Email}
             />
            <input
                type="password"
                className='inputBox'
                placeholder="Password"
                value={password}
                onChange={Password}
            />
            <button onClick={handleLogin} className="button">Login</button>
        </div>
    );
}

export default LoginPage;
```

Content.js

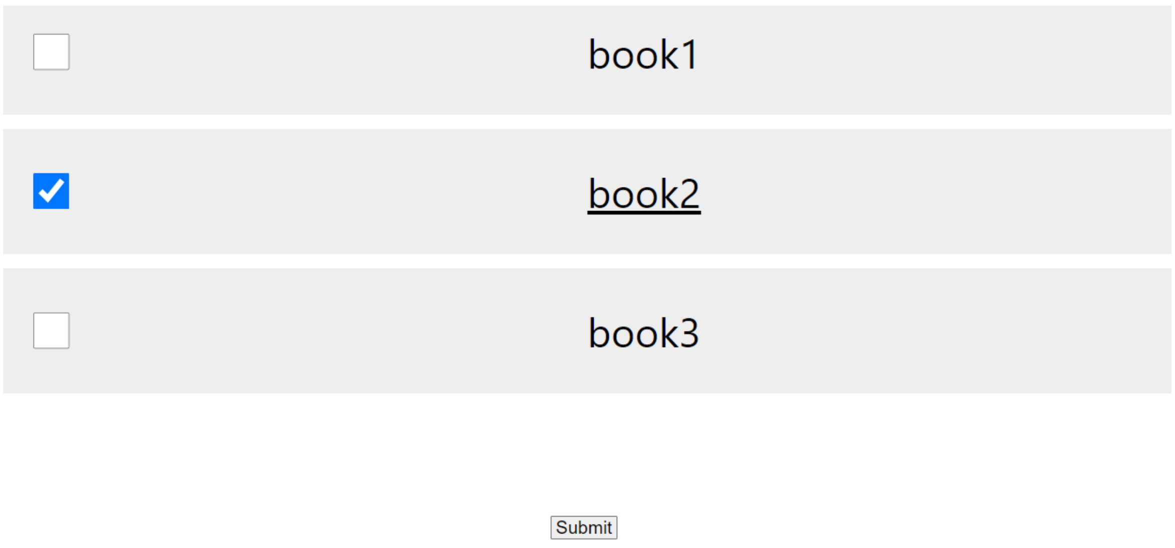
```
import {useState} from 'react' ;
const Content  =  () => {
   const[items, setItems] = useState([
    {
        id : 1 ,
        item : "book1",
        checked : false
    },
    {
        id : 2 ,
        item : "book2",
        checked : false
    },
    {
        id : 3 ,
        item : "book3",
        checked : false
    }
   ])  ;
   const handleCheck= (id) => {
       const newList = items.map((item)=> item.id === id ? {...item , checked:
!item.checked} : item)
       setItems(newList)
   }
   const handleSubmit= () => {
    var s = ""
    var val = items.map((item => item.checked ? s+=item.item:s+='')) ;
    const object = {id : 1, book_name: val[2]} ;
    console.log(object) ;

    fetch("http://localhost:8080/SaveUser" , {
        method: "POST",
        headers:{"Content-Type":"application/json"},
        body : JSON.stringify(object)
    }).then(()=>{
        console.log("Succeed") ;
    })


   }

    return(
        <main>
            <ul>
                {items.map((item)=> (
                    <li className="item" key={item.id}>
                        <input type="checkbox" checked = {item.checked}
onChange={()=> handleCheck(item.id)}></input>
                        <label>{item.item}</label>

                    </li>
                ))
                }
            </ul>
            <button className="contentButton"
onClick={handleSubmit}>Submit</button>
        </main>
    )

}
export default Content ;
```

Output: -

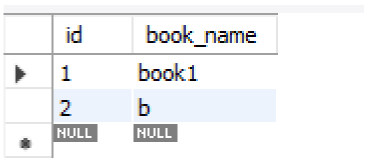
Login Page:



Registration Page:

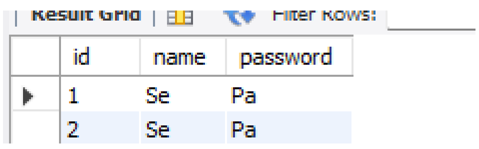


User Entity:



	id	book_name
▶	1	book1
	2	b
✱	NULL	NULL

User Info:



id	name	password
1	Se	Pa
2	Se	Pa