**App.js**

import React from 'react';

import Contact from './components/contact';

import ViewAllBooks from './components/viewAllBooks';

import AddBook from './components/addBook';

import {BrowserRouter as Router, Route, Link, Switch, Redirect } from 'react-router-dom';

// import the components

class App extends React.Component {

render() {

return (

<Router>

<React.Fragment>

<nav className="navbar navbar-expand-md bg-dark navbar-dark ">

<div className="navbar-header">

<Link className="navbar-brand" to="/">Learning Portal</Link>

</div>

<ul className="navbar-nav ">

<li className="nav-item">

<Link className="nav-link" to="/card">View All Books</Link>

</li>

<li className="nav-item">

<Link className="nav-link" to="/contact">Contact Us</Link>

</li>

<li className="nav-item">

<Link className="nav-link" to="/addBook">Add A Book</Link>

</li>

</ul>

</nav>

<br/>

<Switch>

{/\*Implement the routes\*/}

<Route exact path="/" render={() => <Redirect to='/card'/>} ></Route>

<Route exact path="/card" component={ViewAllBooks}></Route>

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

<Route exact path="/addBook" component={AddBook}></Route>

</Switch>

</React.Fragment>

</Router>

);

}

}

export default App;

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**Book.js**

// Code Book component

import React from "react"

class Book extends React.Component {

state = {

buttonClicked: this.props.buttonStatus

}

handelClick = () => {

this.setState({

buttonClicked: !this.state.buttonClicked,

})

}

render() {

const { buttonClicked } = this.state;

const arr = [];

return (

<React.Fragment>

{this.props.bookItem.map((book, key) => (

arr.push(<div className="card col-4 offset-1" key={key}>

<div className="card-body">

<p className="card-title text-center display-4"><b>{book.title}<br /></b><br /></p>

Author: {book.author}<br />

Genre: {book.genre}<br /><br />

{buttonClicked ? <i>{book.summary}<br /><br /></i> : ''}

<button className="btn btn-success" value={book.id} onClick={() => this.handelClick()}>Summary</button>

</div>

</div>)))}

{arr}

</React.Fragment>

)

}

}

export default Book;

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**viewAllBooks.js**

import React from "react"

import axios from 'axios';

import Book from './Book';

// You can create functions of your own.

const url = "<http://localhost:4000/books/>";

class ViewAllBooks extends React.Component {

state = {

buttonClicked: false,

bookData: [],

errorMessage: ""

};

componentDidMount = () => {

// do relevent logic here

console.log("did mounted");

this.fetchAllBooks();

}

fetchAllBooks = () => {

// Implement this by doing a backend call to the url

// assign the response to bookData id successfulls

// Handle all errors if any

axios

.get(url)

.then((res) => {

console.log(res.data);

this.setState({

bookData: res.data,

buttonClicked: false,

errorMessage: ""

})

})

.catch((e) => {

console.log(e.message);

this.setState({

bookData: null,

buttonClicked: false,

errorMessage: e.message

})

})

}

render() {

console.log("home: render");

const { buttonClicked,bookData,errorMessage } = this.state;

return (

<React.Fragment>

<h3 className="text-primary text-right">Catalog</h3>

<div className="row" >

{/\*

Use the Book component here to display fetched books

\*/}

{/\* {JSON.stringify(this.state)}; \*/}

<Book bookItem={bookData} buttonStatus={buttonClicked}></Book>

<p>{errorMessage}</p>

<hr/>

</div>

</React.Fragment>

)

}

}

export default ViewAllBooks;

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**contact.js**

// Code Contact component

import React from "react"

function Contact(){

return(

<React.Fragment>

<h1 className="text-info">Get in touch with us</h1><br/><br/>

<h1>We're open from 9:00am to 9:00pm all 7 days!</h1><br/><br/>

<h3>Or contact us at:</h3><br/>

<ul>

<li>Email: xyzlibrary@gmail.com</li>

<li>Patron Help: +91 888 445 9981</li>

</ul>

</React.Fragment>

)

}

export default Contact;

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
addBook.js**

// Code AddBook component

import React from "react";

import axios from 'axios';

const URL\_ADD\_Book = "<http://localhost:4000/books>";

class AddBook extends React.Component {

state = {

title: '',

author: '',

genre: '',

summary: '',

successMessage: '',

failureMessage: ''

}

handleChange = (e) => {

this.setState({

[e.target.name]: e.target.value

})

}

handleSubmit = (e) => {

e.preventDefault();

const newBook = {

"title": this.state.title,

"author": this.state.author,

"genre": this.state.genre,

"summary": this.state.summary,

};

console.log(newBook);

axios

.post(URL\_ADD\_Book, newBook)

.then((res) => {

console.log(res);

this.setState({

successMessage: `${res.data.title} was successfully inserted.`,

failureMessage: '',

title: '',

author: '',

genre: '',

summary: ''

})

})

.catch((e) => {

console.log(e);

this.setState({

successMessage: '',

failureMessage: 'Error in adding book to catalog',

title: '',

author: '',

genre: '',

summary: ''

})

})

}

render() {

const { title, author, genre, summary, successMessage, failureMessage } = this.state;

console.log("addBook: render")

return (

<React.Fragment>

<div className="card col-md-4 offset-4">

<h1 className="text-center">Add A Book</h1>

<div className="card-body">

{/\* {JSON.stringify(this.state)} \*/}

<form className="form" onSubmit={(e) => this.handleSubmit(e)}>

<div className="form-group">

<label htmlFor="title">Title:</label>

<input onChange={(e) => this.handleChange(e)}

className="form-control" type="text" name="title" value={title} />

</div>

<div className="form-group">

<label htmlFor="author">Author:</label>

<input onChange={(e) => this.handleChange(e)}

className="form-control" type="text" name="author" value={author} />

</div>

<div className="form-group">

<label htmlFor="genre">Genre:</label>

<input onChange={(e) => this.handleChange(e)}

className="form-control" type="text" name="genre" value={genre} />

</div>

<div className="form-group">

<label htmlFor="summary">Summary:</label>

<input onChange={(e) => this.handleChange(e)}

className="form-control" type="text" name="summary" value={summary} />

</div>

<button type="submit" className="btn btn-success" >Add Book</button>

</form>

<p className="text-success">{successMessage}</p>

<p className="text-danger">{failureMessage}</p>

</div>

</div>

</React.Fragment>

)

}

}

export default AddBook;

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