



A Project Report

On

**BOOKSHELF**

Submitted in partial fulfillment of the requirements for the

award of the degree of

**(DEGREE)**

in

**Session: 2020-2022**

By

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**DESIGNATION**



**CHANDIGARH  
UNIVERSITY**

Discover. Learn. Empower.

**University Institute of Computing**

**CHANDIGARH UNIVERSITY, GHARUAN, MOHALI, PUNJAB, 140413**

**Project Coordinator**

**Head-UIC**

**2021-2022**





## **DECLARATION**

We, Rupesh Gaur(20MCA1316) and Chinu Rathi (20MCA1351)  
20MCA 2(A) student of Chandigarh University , hereby declare that the Project Report entitled  
“**BookShelf**” is an original work and data provided in the study is authentic to the best of our  
knowledge under the supervision of **Ms. Amandeep Kaur**.

**Place:**

**Date:**

**Signature of Supervisor:**

**Sign of Student  
1**

Rupesh Gaur

20MCA1316

**Sign of Student  
2**

Chinu Rathi

20MCA1351



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We also extend our sincere appreciation to “**Ms. Amandeep Kaur**” who provided her valuable suggestions and precious time in accomplishing our Integrated project report.

Lastly, we would like to thank the almighty and our parents for their moral support and friends with whom we shared our day-to-day experience and received lots of suggestions that improve our quality of work.



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## **Abstract**

**Bookshelf** is an inspiring, easy-to-use, intuitive website built to help enhance your reading, studying, and learning experience.

Bookshelf offers industry leading, easy-to-use books to help you learn more efficiently. With Bookshelf, you can read, highlight, and annotate just as you would on paper. Even subscribe to your want to read and read book highlights and notes to view in your book.

Bookshelf's features go beyond traditional print textbooks.

See, all of your E-Textbooks at a glance and access them instantly, anywhere at anytime from your Bookshelf - no backpack required.

You'll find multiple ways to move between pages and sections including linked Table of Contents and Search, make navigating E-Textbooks a snap



## **Introduction**

### **Problem statement:**

**This project aims to developed for the purpose of:**

Here we are try to develop such type of application which provides to manage any type of book from the bookshelf . That means a shelf which has the type of system which provides the facility to the customers of managing the books and to differentiate the book from the shelf without any complexity.

### **Purpose of Project and Overview of Project Report:**

Our project is based on managing the books in 3 different categories.

In this application we have used many different functionality 1st you can manage your books 2nd you can search for books also you can delete the books from the given categories and you also have a log in page. It really helps you to save your time and to find the books and easy to remember on which book you are up to. According to the above facts, managing and maintaining a book shelf could also be controlled by efficient software. This project focuses attention on designing efficient and reliable software which controls the management of a book.

## Technologies used:

The website has been developed in **CSS**, JavaScript, React js, API, NPM.

### HTML

HTML is a mark-up language which is in reality the is a backbone of any site. We can't develop a site without the basic knowledge of HTML. Whereas only using HTML the website will not look attractive to the user. To add more effects and features to this website **CSS** and **ReactJS** is used.



### CSS

CSS stands for Cascading Style Sheets. CSS describes how HTML elements are to be displayed on screen, paper, or in other media. CSS saves a lot of work. It can control the layout of multiple web pages all at once. External style sheets are stored in CSS files.



## REACT JS

It is a JavaScript library for building user interfaces.

React makes it painless to create interactive UIs.

Design simple views for each state in your application,

and React will efficiently update and render just the

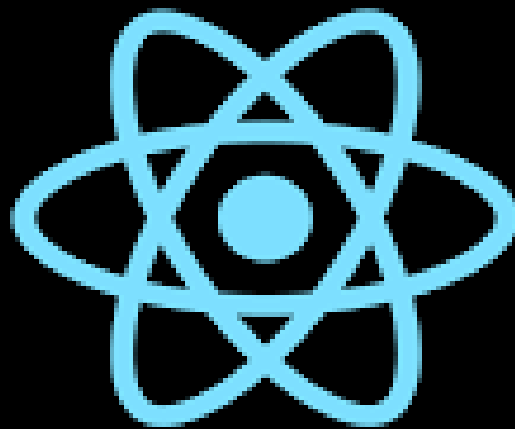
right components when your data changes. Declarative

views make your code more predictable and

easier to debug. It can also render on the

server using Node, and it can power native

apps using React Native.



# React JS



## API

An application programming interface (**API**) is a computing interface which defines interactions between multiple software intermediaries.

It defines the kinds of calls or requests

- >can be made,
- >how to make them,
- >the data formats that should be used,
- >the conventions to follow.

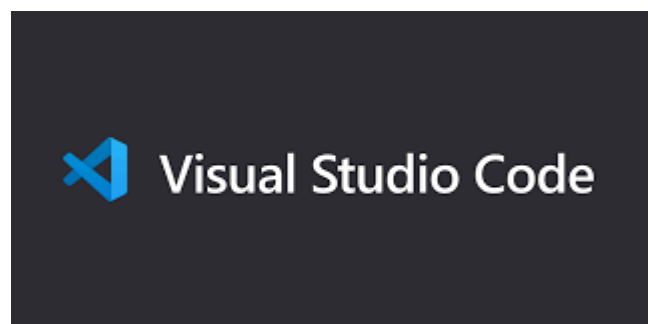


## VISUAL STUDIO CODE

Visual Studio Code is a free source-code editor made by Microsoft for

**Windows, Linux and MacOS.**

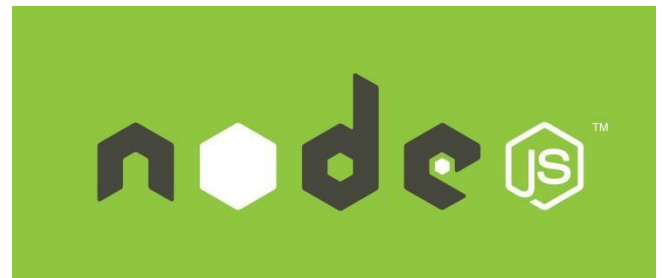
Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git.



## NPM

**Npm (Node Package Manager)** is package manager for the JavaScript programming language.

It is the default package manager for the JavaScript runtime environment Node.js. It consists of a command line client, also called npm, and an online database of public and paid-for private packages, called the npm registry. The registry is accessed via the client, and the available packages can be browsed and searched via the npm website. For running the application you have to open the terminal and run npm install(to install the dependencies) and then npm start(to start the application on localhost)



### **Advantage of Book Shelf App: -**

- Easy to manage the books.
- Save Time.
- Place the book according to the situation.

## **Software and Hardware Requirement Specification**

### **1. Methods**

The way we reach to get this solution of the problem or attacked the problem contains sequence of steps: -

- a. First, we discuss about this problem statement with our team members about the project that aims to develop an website that enables users to place the books according to situation. This application can be efficiently used as a medium. The functionalities provided by this applications include the search page to find the book easily and place the book in different three categories -:

- 1)Want to read
- 2)Currently read
- 3)Read

- b. After that we all are with some major points that are raised in this problem and thinkover it.

- c. Many solutions of this problem are come out of our mind that are
  - a. A website can also be made containing all the major aspects of the problem.
  - b. A guide book also be made .
  - c. An application can also be made.

And so many options we have to get out of this problem.

## **2. Why we take website?**

A website consists of browser- based HTML pages that are linked together and accessed over the internet whereas Apps are actual applications that are downloaded and installed on our mobile device. Users visit device-specific browsers such as google chrome in order to browse and use link for a given system. Rather than searching for an app and downloading it , customers can easily browse this website anywhere anytime.

## 1.2 Programming/Working Environment

Building a website comes down to major skills/languages: Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and React JS, it forms a triad of cornerstone technologies for the World Wide Web.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

Once you learn HTML, CSS is rulesets for telling the browser how to display the HTML formatted content. It is also not a programming language in the same way HTML is, although it can be a lot more powerful.

Now for a total beginner, recommend youtube tutorials to get the basic idea of syntax behind javascript concepts, such as for loops and if statements.

Another language is React. React is a JavaScript library that aims to simplify development of visual interfaces. React is used to build single-page web applications, among with many other libraries and frameworks that were available before React came into life.



Learning to code is difficult enough on its own but not impossible. Once you know how to use these three languages, its pretty easy to make an effective website using these three languages. It is the default package manager for the JavaScript runtime environment Node.js. It consists of a command line client, also called npm, and an online database of public and paid-for private packages, called the npm registry. The registry is accessed via the client, and the available packages can be browsed and searched via the npm website. For running the application you have to open the terminal and run npm install(to install the dependencies) and then npm start(to start the application on localhost)

## **4. Requirements to run this website**

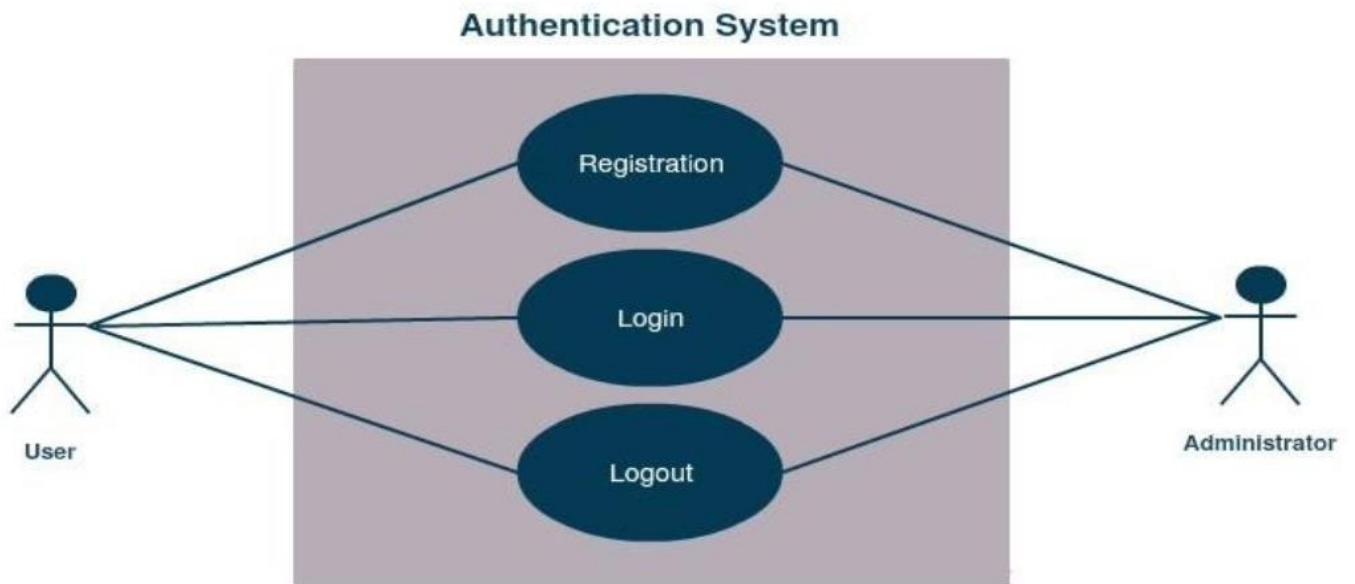
Each web browser renders HTML and CSS in a different way, so you'll also need to make sure that your device must contain a browser. The five most popular web browsers, in order from most to least popular, are:

- Google Chrome
- Windows Internet Explorer
- Mozilla Firefox
- Apple Safari
- Opera

You also need to have:

- Node.js

## Authentication System



## **Overall Description**

### **1. Product Perspective: -**

- Easy to Search the book
- Manages the book
- Login
- Available on all devices
- Great user interface

### **2. Product Function: -**

- Registration
- User signup/login
- Storage of book

### **3. Operating Environment: -**

‘BookShelf’ is a website that will operate in the entire famous browser like Mozilla Firefox, Google Chrome, Internet explorer.

This software package is supposed to work in the following atmosphere:

1. OS - Windows 7, 8, XP, 10
2. Visual Studio
3. HTML, CSS, React JS.
4. Node.js, on the server.

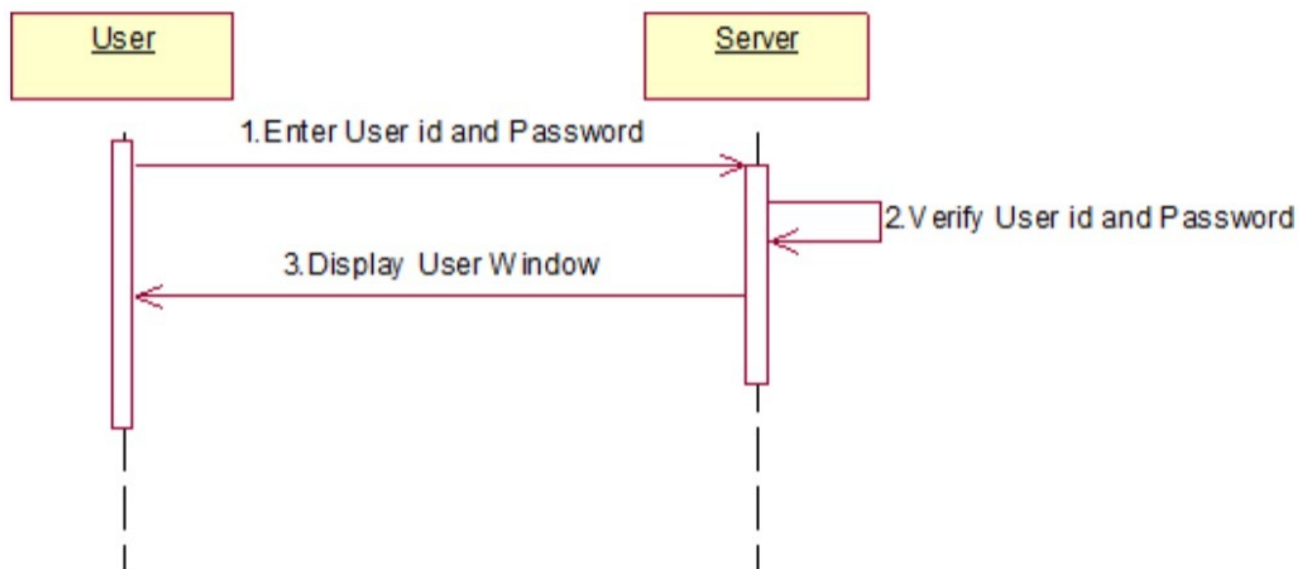
#### **4. Design and Implementation constraints: -**

1. Login email should be valid means '@' is required and '.com' is required to be a valid email.
2. Password Length should be of at least 6 characters.
3. Email and password must not be the same

## Functional Requirements

### 1. User Registration

User must be able to register for the application through a valid username. If user skips this step, application should close. The users username will be the unique identifier of his/her account on Bookshelf Application.



## **2. Adding New Books**

The application should detect all books from the users database.

## **3. Search Option**

You can search any book which are available on website.

## **4. Global**

User should be able to enter the site from any country. You can easily access the websites.

## **External Interface Requirements**

### **1. User Interface:**

- Login Page
- Registration Page
- Main Page
- Search Page

### **2. Hardware Interface:**

It must be pc computer or laptop to link with website.

### **3. Software Interface:**

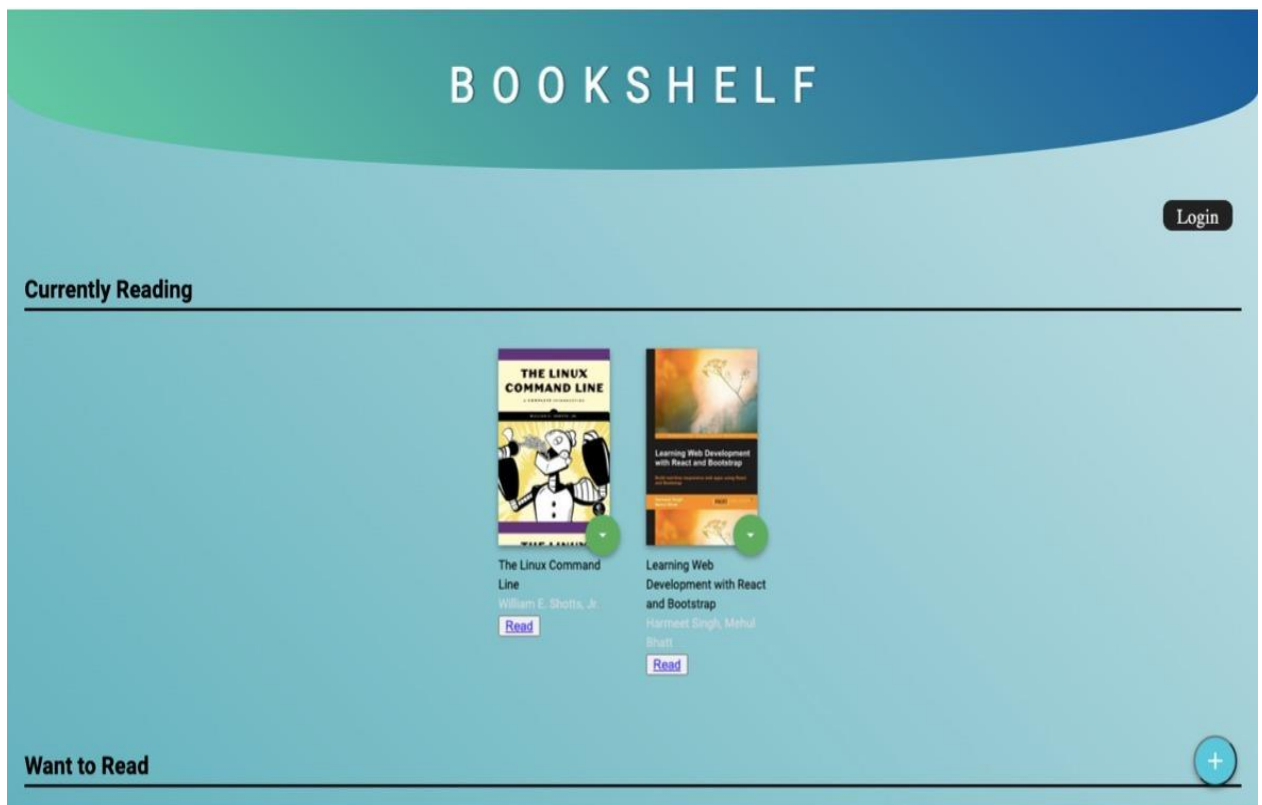
- Browser to load and view web pages.
- Operating System (Windows 8/7/XP)
- Npm should be installed.



## Program's Structure Analyzing and GUI Constructing (Project Snapshots)

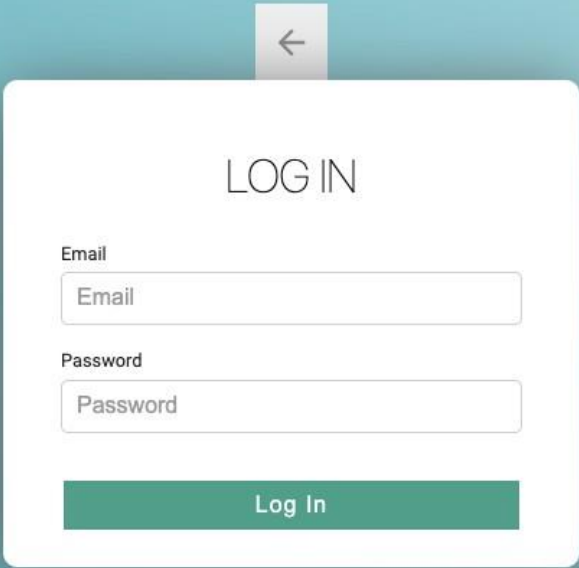
- **Main Page**

Open the Bookshelf Application and you will enter the on the following main page.



- **Login**

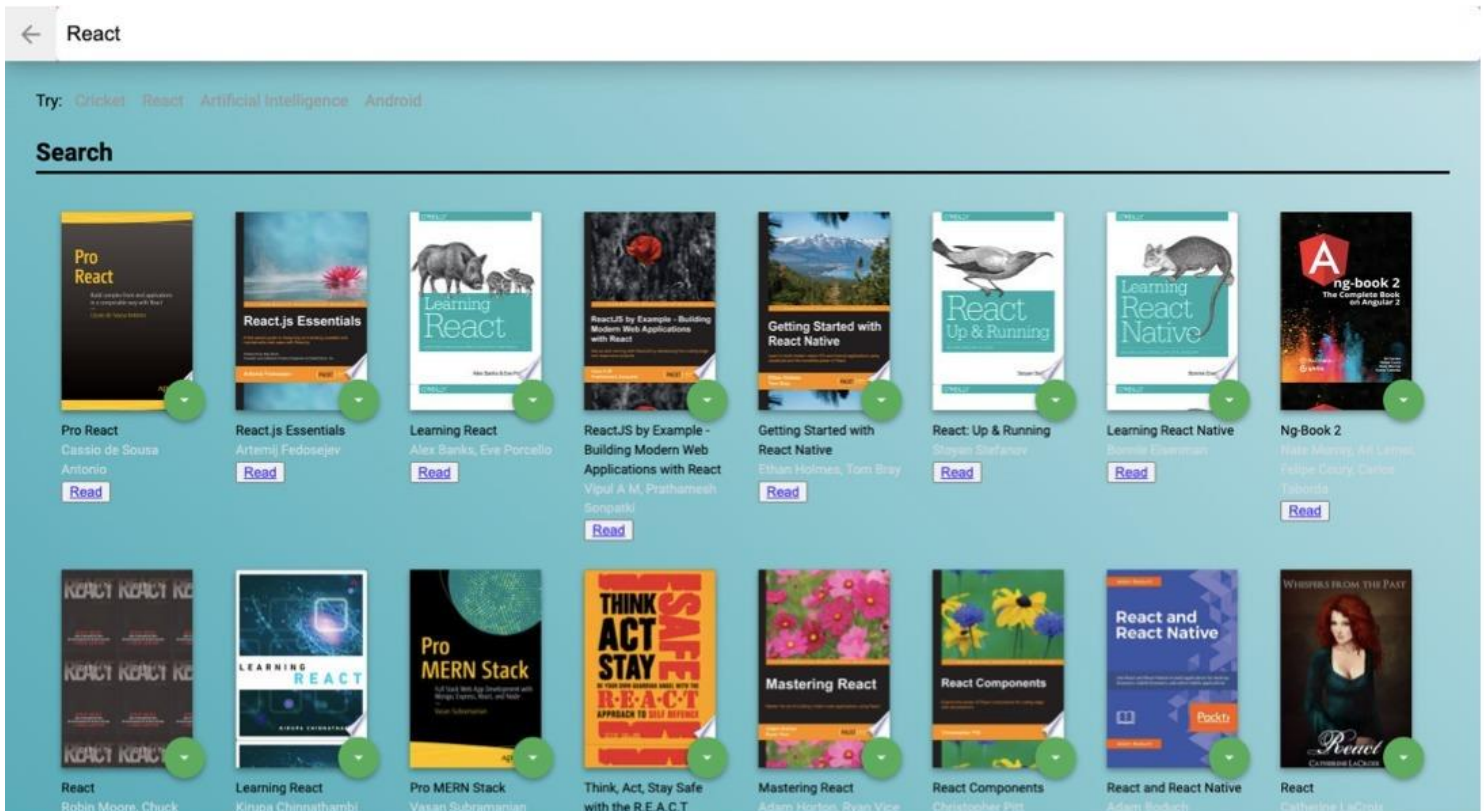
You will have to login with a valid username and a password. The user interface of this page is really different as compare to other.



The image shows a login form centered on a teal background. At the top of the form is a back arrow icon. Below it, the title "LOG IN" is displayed in a large, thin, uppercase font. The form contains two input fields: "Email" and "Password", each with a label above it. A green "Log In" button is positioned at the bottom of the form.


- **Search Option**

Here you can search any books which you want to read. All your favourite books are here.




- Books Page

---




The Cuckoo's Calling  
Robert Galbraith  
[Read](#)




Lords of Finance  
Liaquat Ahamed  
[Read](#)

---


Read




Needful Things  
Stephen King  
[Read](#)



React  
Nils Hartmann, Oliver Zeigermann  
[Read](#)

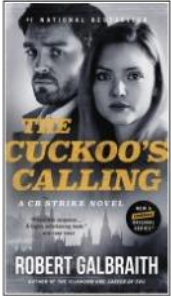


Satire TV  
Jonathan Gray, Jeffrey P. Jones, Ethan Thompson  
[Read](#)



- Reading books

## The Cuckoo's Calling



Robert Galbraith

Little, Brown, 30-Apr-2013 - Fiction - 464 pages

★★★★★

3118 Reviews

Published under a pseudonym, J. K. Rowling's brilliant debut mystery introduces Detective Cormoran Strike as he investigates a supermodel's suicide in "one of the best books of the year" (*USA Today*).

After losing his leg to a land mine in Afghanistan, Cormoran Strike is barely scraping by as a private investigator. Strike is down to one client, creditors are calling, and after a breakup with his longtime girlfriend, he's living in his office.

[More »](#)

### What people are saying - [Write a review](#)

#### LibraryThing Review

User Review ★★★★★ - susandennis - LibraryThing

I hope hope hope that this is the first in "Robert Galbraith"'s Cormoran Strike Detective series. It was a great read with fascinating characters and a great story. I've tried to read other Rowling books and never could get latched on. I was hooked on this one in 10 pages. Sold. Bring me more!! [Read full review](#)

#### LibraryThing Review

User Review ★★★★★ - stephanie\_M - LibraryThing

Brilliantly written, expertly detailed novel. Robert Glennister narrated, and very well done. I enjoyed every page of it, and I will eagerly wait for the sequel as well. [Read full review](#)

#### User ratings



## CODE SCREENSHOTS-

### 1) Apps.js

```

JS App.js x
src > JS App.js > ...
1  import React from 'react'
2  import * as BooksAPI from './BooksAPI'
3  import './App.css'
4  import { Route } from 'react-router-dom';
5  import Login from './Login';
6  import Search from './Search';
7  import MainPage from './MainPage';
8
9  class BooksApp extends React.Component {
10     state = {
11       books: [],
12       loading: false
13     }
14
15     componentDidMount = () => {
16       this.fetchAllBooks();
17     }
18
19     fetchAllBooks = () => {
20       BooksAPI.getAll()
21         .then(books => this.setState({ books }))
22         .then(() => this.setState({ loading: false }))
23     }
24
25     // move book to a different shelf
26     onShelfChange = async (book, shelfName) => {
27       this.setState({ loading: true });
28       await BooksAPI.update(book, shelfName)
29
30       this.fetchAllBooks()
31     }
32

```

```

33   render() {
34     return (
35       <div className={`app ${this.state.loading && 'dimmed'}`}>
36         <Route path="/search">
37           <Search
38             userBooks={this.state.books}
39             onShelfChange={this.onShelfChange}
40           />
41         </Route>
42         <Route exact path="/">
43           <MainPage books={this.state.books} onShelfChange={this.onShelfChange} />
44         </Route>
45         <Route path="/login"><Login books={this.state.books} onShelfChange={this.onShelfChange}/></Route>
46       </div>
47     )
48   }
49 }
50
51
52 export default BooksApp;
53

```

## 2) BookItem.js

```
JS BookItem.js X
src > JS BookItem.js > ...
1  import React from 'react';
2  import PropTypes from 'prop-types';
3
4
5  class BookItem extends React.Component {
6
7      onChangeSelect = (newShelf) => {
8          this.props.onShelfChange(this.props.book, newShelf);
9      }
10
11      render() {
12          const { book } = this.props;
13          const hasImage = book.imageLinks ? book.imageLinks.smallThumbnail : '';
14
15          return (
16              <li>
17                  <div className="book">
18                      <div className="book-top">
19                          <div className="book-cover" style={{ backgroundImage: `url(${hasImage})` }}></div>
20                          <div className="book-shelf-changer">
21                              <select value={book.shelf || 'none'} onChange={(e) => this.onChangeSelect(e.target.value)}>
22                                  <option value="move" disabled>Move to...</option>
23                                  <option value="currentlyReading">Currently Reading</option>
24                                  <option value="wantToRead">Want to Read</option>
25                                  <option value="read">Read</option>
26                                  <option value="none">None</option>
27                              </select>
28                          </div>
29                      </div>
30                      <div className="book-title">{book.title}</div>
31                      <div className="book-authors">{book.authors && book.authors.join(', ')}</div>
32                      <button className="button"><a href={book.previewLink}>Read</a></button>
33                  </div>
34              </li>
35          )
36      }
37  }
38
39  BookItem.propTypes = {
40      book: PropTypes.object.isRequired,
41      onShelfChange: PropTypes.func.isRequired
42  }
43
44  export default BookItem;
```

## 3) BookList.js

```
JS BookList.js x
src > JS BookList.js > ...
1 import React from 'react'
2 import PropTypes from 'prop-types';
3 import BookItem from './BookItem';
4
5 function BookList({ name, books, onShelfChange }) {
6   return (
7     <div className="bookshelf">
8       <h2 className="bookshelf-title">{name}</h2>
9       <div className="bookshelf-books">
10         <ol className="books-grid">
11           {books.length === 0 ? <div>There are no books to display.</div>
12             : books.map(book => (
13               <BookItem book={book} onShelfChange={onShelfChange} key={book.id} />
14             ))}
15         </ol>
16       </div>
17     </div>
18   )
19 }
20
21 BookList.propTypes = {
22   name: PropTypes.string.isRequired,
23   books: PropTypes.arrayOf(PropTypes.object),
24   onShelfChange: PropTypes.func.isRequired
25 }
26
27 export default BookList;
```

## 4) BookAPI.js



```
JS BooksAPI.js X
src > JS BooksAPI.js > ...
1
2 const api = "https://reactnd-books-api.udacity.com"
3
4
5 // Generate a unique token for storing your bookshelf data on the backend server.
6 let token = localStorage.token
7 if (!token)
8   token = localStorage.token = Math.random().toString(36).substr(-8)
9
10 const headers = {
11   'Accept': 'application/json',
12   'Authorization': token
13 }
14
15 export const get = (bookId) =>
16   fetch(`${api}/books/${bookId}`, { headers })
17     .then(res => res.json())
18     .then(data => data.book)
19
20 export const getAll = () =>
21   fetch(`${api}/books`, { headers })
22     .then(res => res.json())
23     .then(data => data.books)
24
25 export const update = (book, shelf) =>
26   fetch(`${api}/books/${book.id}`, {
27     method: 'PUT',
28     headers: {
29       ...headers,
30       'Content-Type': 'application/json'
31     },
32     body: JSON.stringify({ shelf })
33   }).then(res => res.json())
34
35 export const search = (query) =>
36   fetch(`${api}/search`, {
37     method: 'POST',
38     headers: {
39       ...headers,
40       'Content-Type': 'application/json'
41     },
42     body: JSON.stringify({ query })
43   }).then(res => res.json())
44     .then(data => data.books)
45
```

## 5) index.js

```
JS index.js X
src > JS index.js
1 import React from 'react'
2 import ReactDOM from 'react-dom'
3 import App from './App'
4 import './index.css'
5 import { BrowserRouter } from 'react-router-dom'
6
7 ReactDOM.render(<BrowserRouter><App /></BrowserRouter>, document.getElementById('root'))
8
```

## 6) Login.js

```
JS Login.js x
src > JS Login.js > ...
1 import React, { Component } from "react";
2 import "./App.css";
3 import { Link, useHistory, Redirect } from "react-router-dom";
4
5
6
7 const emailRegex = RegExp(
8   /^[a-zA-Z0-9.!#$%&'*/+=?^_`{|}~]+@[a-zA-Z0-9-]+(?:\.[a-zA-Z0-9-]+)*$/
9 );
10
11 const formValid = ({ formErrors, ...rest }) => {
12   let valid = true;
13
14   // validate form errors being empty
15   Object.values(formErrors).forEach(val => {
16     val.length > 0 && (valid = false);
17   });
18
19   // validate the form was filled out
20   Object.values(rest).forEach(val => {
21     val === null && (valid = false);
22   });
23
24   return valid;
25 };
26
27 class App extends Component {
28
29   constructor(props) {
30     super(props);
31
32     this.state = {
33
34       email: null,
35       password: null,
36       login: false,
37       formErrors: {
38
39         email: "",
40         password: "",
41         username: ""
42       },
43       renderHome : false
44     };
45   }
}
```

```

47 handleSubmit = e => {
48   e.preventDefault();
49
50   if (formValid(this.state)) {
51     console.log(`
52       --SUBMITTING--
53
54       Email: ${this.state.email}
55       Password: ${this.state.password}
56     `);
57   };
58   this.setState({ login: true });
59   sessionStorage.setItem("login", "true");
60   sessionStorage.setItem("email", this.state.email)
61   this.setState({
62     renderHome: true
63   });
64
65   // let history = useHistory();
66   // history.goBack();
67   //return this.setState({ error: "" });
68 } else {
69   console.error("FORM INVALID - DISPLAY ERROR MESSAGE");
70 }
71
72 };
73
74 routeChange=()=> {
75   let history = useHistory();
76   console.log('sdsdsdss');
77   history.goBack();
78 }
79
80 handleChange = e => {
81   e.preventDefault();
82   const { name, value } = e.target;
83   let formErrors = { ...this.state.formErrors };

```

```

85   switch (name) {
86     case "firstName":
87       formErrors.firstName =
88         value.length < 3 ? "minimum 3 characaters required" : "";
89       break;
90     case "lastName":
91       formErrors.lastName =
92         value.length < 3 ? "minimum 3 characaters required" : "";
93       break;
94     case "email":
95       formErrors.email = emailRegex.test(value)
96         ? ""
97         : "invalid email address";
98       break;
99     case "password":
100       formErrors.password =
101         value.length < 6 ? "minimum 6 characaters required" : "";
102       break;
103     default:
104       break;
105   }
106
107   this.setState({ formErrors, [name]: value }, () => console.log(this.state));
108 };
109

```

```

110
111 render() {
112   const { formErrors } = this.state;
113
114   const renderToHomePage = this.state.renderHome;
115   if (renderToHomePage === true) {
116     return <Redirect to="/" />
117   }
118
119   return (
120
121     <div className="wrapper">
122       <Link to="/"><button className="close-search">Close</button></Link>
123       <div className="form-wrapper">
124         <h1>LOG IN</h1>
125         <form onSubmit={this.handleSubmit} noValidate>
126           <div className="email">
127             <label htmlFor="email">Email</label>
128             <input
129               className={formErrors.email.length > 0 ? "error" : null}
130               placeholder="Email"
131               type="email"
132               name="email"
133               noValidate
134               onChange={this.handleChange}
135             />
136             {formErrors.email.length > 0 && (
137               <span className="errorMessage">{formErrors.email}</span>
138             )}
139           </div>
140           <div className="password">
141             <label htmlFor="password">Password</label>
142             <input
143               className={formErrors.password.length > 0 ? "error" : null}
144               placeholder="Password"
145               type="password"
146               name="password"
147               noValidate
148               onChange={this.handleChange}
149             />
150             {formErrors.password.length > 0 && (
151               <span className="errorMessage">{formErrors.password}</span>
152             )}
153           </div>
154

```

```

154
155       <div className="createAccount">
156         <button type="submit">Log In</button>
157       </div>
158     </form>
159   </div>
160 </div>
161 </div>
162 );
163 }
164 }
165
166 export default App;

```

## 7) Loginbtn.js

```
JS Loginbtn.js ×
src > JS Loginbtn.js > ...
1  import React from 'react';
2  import { Link } from 'react-router-dom';
3
4  function LoginBtn() {
5    return (
6      <div className="loginbtn">
7        <Link to="/login">
8          <button className="btn">Login</button>
9        </Link>
10     </div>
11   )
12 }
13
14
15 export default LoginBtn;
```

## 8) MainPage.js

src &gt; JS MainPage.js &gt; ...

```

1  import React from 'react';
2  import PropTypes from 'prop-types';
3  import OpenSearchBtn from './OpenSearchBtn';
4  import BookList from './BookList';
5  import LoginBtn from './Loginbtn';
6
7
8
9  class MainPage extends React.Component {
10     // find all books by their shelf
11     filterBooks = (shelfName) => {
12         return this.props.books.filter(book => book.shelf === shelfName)
13     }
14     changeLoginStatus = () => {
15         sessionStorage.setItem("login", "false");
16         this.setState({
17             username: "",
18             password: "",
19         });
20     };
21
22     render() {
23         return (
24             <div className="list-books">
25                 <div className="list-books-title">
26                     <div className="foo">
27                         <span className="letter" data-letter="B">B</span>
28                         <span className="letter" data-letter="O">O</span>
29                         <span className="letter" data-letter="O">O</span>
30                         <span className="letter" data-letter="K">K</span>
31                         <span className="letter" data-letter="S">S</span>
32                         <span className="letter" data-letter="H">H</span>
33                         <span className="letter" data-letter="E">E</span>
34                         <span className="letter" data-letter="L">L</span>
35                         <span className="letter" data-letter="F">F</span>
36                     </div>
37                 </div>
38                 <div className="login">{sessionStorage.getItem("login")===true" ? (
39                     <div> <div>{sessionStorage.getItem("email")}</div>
40                     <button className="btn" onClick={this.changeLoginStatus}>Sign Out</button>
41                     </div>
42                 ) : (
43                     <div className="login"><LoginBtn /></div>
44                 )}</div>

```

```

47     <div>
48       <div className="list-books-content">
49         <div>
50           <BookList
51             name="Currently Reading"
52             books={this.filterBooks('currentlyReading')}
53             onShelfChange={this.props.onShelfChange}
54           />
55           <BookList name="Want to Read"
56             books={this.filterBooks('wantToRead')}
57             onShelfChange={this.props.onShelfChange} />
58           <BookList
59             name="Read"
60             books={this.filterBooks('read')}
61             onShelfChange={this.props.onShelfChange}
62           />
63         </div>
64       </div>
65       <OpenSearchBtn />
66     </div>
67   </div>
68 </div>
69 )
70 }
71 }
72
73 MainPage.propTypes = {
74   books: PropTypes.arrayOf(PropTypes.object),
75   onShelfChange: PropTypes.func.isRequired
76 }
77
78 export default MainPage;
79

```

## 9) OpenSearchBtn.js

```

JS OpenSearchBtn.js x
src > JS OpenSearchBtn.js > ...
1  import React from 'react';
2  import { Link } from 'react-router-dom';
3
4  function OpenSearchBtn() {
5    return (
6      <div className="open-search">
7        <Link to="/search">
8          <button>Add a book</button>
9        </Link>
10      </div>
11    )
12  }
13
14
15 export default OpenSearchBtn;

```



```

82 |     )
83 |   }
84 | }
85 |
86 | Search.propTypes = {
87 |   userBooks: PropTypes.arrayOf(PropTypes.object),
88 |   onShelfChange: PropTypes.func.isRequired
89 | }
90 |
91 | export default Search;
92 |

```

## 10) SearchBar.js

JS SearchBar.js x

src > JS SearchBar.js > ...

```

1  import React from 'react';
2  import PropTypes from 'prop-types';
3  import { Link } from 'react-router-dom';
4
5  function SearchBar({ query, handleChange }) {
6    return (
7      <div className="search-books-bar">
8        <Link to="/">
9          <button className="close-search">Close</button>
10         </Link>
11         <div className="search-books-input-wrapper">
12           /*
13            * NOTES: The search from BooksAPI is limited to a particular set of search terms.
14            */
15           <input
16             type="text"
17             placeholder="Search by title or author"
18             value={query}
19             onChange={(e) => handleChange(e.target.value)}
20           />
21         </div>
22       </div>
23     )
24   }
25
26   SearchBar.propTypes = {
27     query: PropTypes.string.isRequired,
28     handleChange: PropTypes.func.isRequired
29   }
30
31   export default SearchBar;
32

```



## **Objective of project**

The main objective of the project is to allow to each and every person to get connected to new books. Some other objectives are listed below:

- Providing a private platform to users.
- To allow each and every person to read their favourite book.
- Search their favourite book.
- Manage their books.

## **Conclusion**

Bookshelf is basically a website to manage books. Users can read their books to enhance their knowledge and can learn while sitting at home. This website is developed by using React , JavaScript, HTML, CSS.

The front-end of this website is developed by using HTML, CSS, React. We have used Session storage to store the information of user at backend. This is an easy to deploy website.

This has an interactive User Interface which will attract a greater number of clients. This website can be used by students who can't afford expensive tuitions. We can deploy it by following some basic commands and also, it's easy to use for clients too. Hence, we can deploy it on internet too.

## **Future Scope**

There is always a scope for improvements in any apps. Right now, we are just dealing with book management. There are several android apps which serve similar purpose as this project, but these apps were rather difficult to use and provide confusing interfaces. A positive first impression is essential in human relationship as well as in human computer interaction. This project hopes to develop a books web app with high quality user interface. In future we may be extended to include features such as:

1. Adding books
2. Issue books
3. Write books
4. Publish books



## **Bibliography/References**

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