# **Project Summary**

To build a React.js Axios Book Search or Finder Web App Using Google Books API in Browser.

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# Tools Used

- React JS
- Bootstrap
- Google Book Api
- Axios
- Nodejs
- Express Js
- MongoDB

# **Create ReactJS project**

#### Step 1

Now create a new React.js project by using the following command.

➤ npm init react-app front

## Step 2

Open the newly created project in Visual Studio code and install react bootstrap in this project by using the following command.

▶ npm init react-bootstrap --save

#### Step 3

Now, open the index.js file and add import Bootstrap.

import 'bootstrap/dist/css/bootstrap.min.css';

# Step 4

Now Install the Axios library by using the following command.

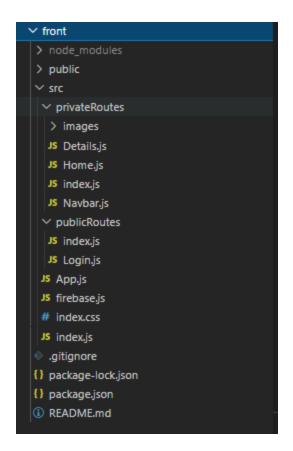
Axios is a lightweight HTTP client based on the \$http service.

▶ npm install --save axios

## Step 4

Create Folders And Files given below

- Src
  - PrivateRoutes
    - Index.js
    - Home.js
    - Detail.js
    - Navbar.js
  - PublicRoutes
    - Index.js
    - Login.js



## Step 5

Setup google Login

▶ npm I firebase

First you need to create a <u>new project in firebase console</u>, Copy the Firebase SDK snippet and enable the Google Sign In Auth method under Authentication section.

• Create firebase.js file under src folder and write code as shown below

Copy the Firebase SDK snippet from firebase app and paste it .

# Step 6

Now Install the React Router DOM library by using the following command.

React Router DOM is an npm package that enables you to implement dynamic routing in a web app.

> npm i react-router-dom

# Step 7

Setup React Router using React Router DOM

➤ In index.js

In src/privateRoutes/index.js

```
front > src > privateRoutes > J5 index.js > ♥ index
                                                 import React from 'react'
import {Routes,Route} from 'react-router'
                            D C = 1
воок
                                                    import Home from './Home'
import Details from './Details'
                                                     function index() {
                                                            <Route path='/' element={<Home/>} />

✓ privateRoutes

                                                            <Route path='/detail/:id' element={<Details/>} />
  > images
  JS Details.js
  JS Home.js
  JS Navbar.js

✓ publicRoutes

                                                      export default index
  JS index.js
  JS Login.js
 JS firebase.js
 # index.css
{} package-lock.json
{} package.json

 README.md
```

#### Step 7

Google Login setup

➤ In Login.js

```
front > rr > publicRoutes > JB Login(s) > @ Login(s) & L
```

Setting up google login using signInWithPopup, getAuth from firebase/auth by above method in the image.

#### In App.js

```
front > src > JS App.js > [@] default
     import { getAuth ,onAuthStateChanged} from "firebase/auth";
      import React, { useEffect, useState } from "react";
      import PrivateRoutes from './privateRoutes/index.js'
import PublicRoutes from './publicRoutes'
     function App() {
       const auth = getAuth()
       console.log('userr', user)
       const [ckuser,setckuser] = useState()
useEffect(() => {
         onAuthStateChanged(auth, (user) => {
             console.log('111', user)
              if(user?.emailVerified){
                 setckuser(true)
                   setckuser(false)
                   console.log('nouser')
       }, [])
       const isUserLoggedIn = ckuser;
         return isUserLoggedIn?<PrivateRoutes/>:<PublicRoutes/>
 30
      export default App;
```

## Step 7

#### Google Book Search Page Setup

- Using Google Book Api
  - o https://www.googleapis.com/books/v1/volumes?q=\${value}&maxResults=20

In src/privateRoutes/Home.js

```
import React, { useState } from 'react'
import NewCar from ', Navabar'
import NewCar from ', Navabar'
import NewCar from ', Navabar'
import ( 185earch ) from 'react-icons/im'
import ( 180earch ) fro
```

- Const[value,setvalue] = useState() is used to store the search input value.
- Search function use google book api, with axios to get the search books output.

# Step 8

Google Book Detail Page Setup

In src/privateRoutes/Detail.js

```
action (continued to the continued of th
```

> detail function use google book api, with axios to get the search book details output with respect to the book id.

# **Create Backend for keywords store**

- Setup backend using the below command:
  - npm init back
- After than cd back
- Then install the required modules by below command
  - Npm init mongoose express cors
- After that create:
  - Datebase page in src/db/db.js

Model in src/models/main.js

```
back > src > models > J5 main.js > [@] <unknown>

1    const mongoose = require('mongoose')
2    const userSchema = mongoose.Schema({
3         email:{type:String,required:true},
4         keywords:{type:Array}
5
6    })
7
8    const Users = mongoose.model('Users',userSchema)
9    module.exports = Users
```

Routes in src/routes/main.js

The server in src/index.js

```
back > src > JS index.js > ...
      const express = require('express')
      const app = express()
     const port = 8080
 4 const cors= require('cors')
  5 const db = require('./db/db')
      const mainroute = require('./routes/main')
      app.use(express.json())
      app.use(cors())
      app.use('/user',mainroute)
      app.get('/get',(req,res)=>{
          res.json('hello from server')
      })
      app.listen(port,()=>{
          console.log(`port running at ${port}`)
 20
      3)
```

- Using this routes in front end using axios
  - o In App, js (front) line no :14, to add register user data

In src/privateRoutes/Home.js (front) to store key-words

```
import React, { useState } from 'react'
import Navbar from './Navbar'
import { Row, Col, Container, Card,Button } from 'react-bootstrap'
import { InSearch } from 'react-icons/im'
import axios from 'axios'
import book from 'react-icons/im'
import book from './images/book.jpg'
import { NavLink } from 'react-router-dom'
import { getAuth, onAuthStateChanged} from "firebase/auth";

function Home() {
    const [value, setValue] = useState()
    const usule, setValue] = useState()
    const auth = getAuth()
    const user = auth.currentUser
    console.log('userrxx', user)
    const search = async () => {
    const { data } = await axios.get('https://www.googleapis.com/books/v1/volumes?q=$(value)&maxResults=20')
    console.log((data))
    setbooklist(data).items)
    const dataupdate = await axios.patch('http://localhost:8080/user/update', { email: user.email,key:value })
}
```

Then Run the front-end: cd front -> npm start

& Backend: cd back node src/index.js

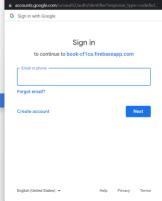
# **Conclusion**

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A <u>React.js</u> Axios Book Search or Finder Web App Using Google Books API in Browser has been built and tested successfully.

# **ScreeenShots**

**G** Sign in With Google









# **Firefly**

Heartstopping chase thriller & winner of the Wilbur Smith Award

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Preview More Info

#### Description