

React JS Project

Wednesday, May 12, 2021 6:52 PM

React Project Problem Statement

Event Management

Description

Build a React app where users can view and promote upcoming events.

Background of the problem statement:

You are a web developer at a company called FindMyMovies. The company has decided to launch a new app called FindMyEvents where users can view and add upcoming events in their region. backend development has been outsourced and frontend will be developed in-house. During sprint planning, you agree to lead this project and develop an app that will let users find events using APIs that backend engineers will provide. The tasks you are responsible for:

- Building the application in React
- Setting up a JSON server for testing until backend APIs are ready
- Managing the state using React State Management

Recommended technologies:

- React: To build the application
- React State Management: To manage the state of components in the application
- JSON Server: To build a placeholder backend for app development and testing
- React Router: To navigate within the app using URL links

Solution:

JSON Server:

- 1) Install JSON sever using: **npm install -g json-server**
- 2) Add event event.json file to Backend-Json-Server folder
- 3) Open Backend-Json-Server folder using VSCode and run command '**npm init--yes**' in terminal
- 4) Load even.json using the below commands:
 - **json-server -v**
 - **json-server --watch events.json --port 8000**

```
Directory of C:\FSDPhaseTwoProject\Backend-Json-Server
04/30/2021 09:56 PM <DIR>      .
04/30/2021 09:56 PM <DIR>      ..
04/30/2021 09:56 PM             603 events.json
04/25/2021 03:02 PM             233 package.json
                2 File(s)      836 bytes
                2 Dir(s)    247,627,796,480 bytes free

C:\FSDPhaseTwoProject\Backend-Json-Server>create-react-app --version
4.0.3

C:\FSDPhaseTwoProject\Backend-Json-Server>json-server --watch events.json --port 8000

\(^_^)/ h1!

Loading events.json
Done

Resources
http://localhost:8000/events

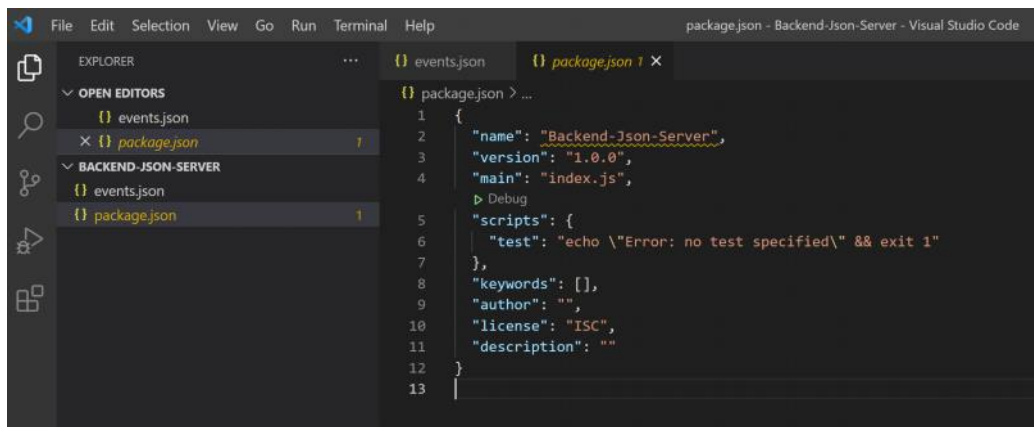
Home
http://localhost:8000

Type s + enter at any time to create a snapshot of the database
Watching...

GET /events 200 7.043 ms - 537
GET /events 304 4.230 ms - -
GET /events/1001 200 5.362 ms - 122
GET /events/1001 304 6.229 ms - -
PUT /events/1001 - - ms - -
GET /events/1001 200 3.546 ms - 119
GET /events 200 2.737 ms - 534
GET /events 304 2.668 ms - -
POST /events 201 12.624 ms - 117
GET /events 200 3.180 ms - 665
GET /events 304 2.740 ms - -
GET /events/1005 200 4.475 ms - 117
GET /events/1005 304 3.595 ms - -
PUT /events/1005 200 6.096 ms - 119
GET /events/1005 200 3.258 ms - 119
GET /events 200 2.963 ms - 667
DELETE /events/1005 200 4.796 ms - 2
GET /events 200 3.464 ms - 534
GET /events 304 4.067 ms - -
GET /events 304 3.158 ms - -
```

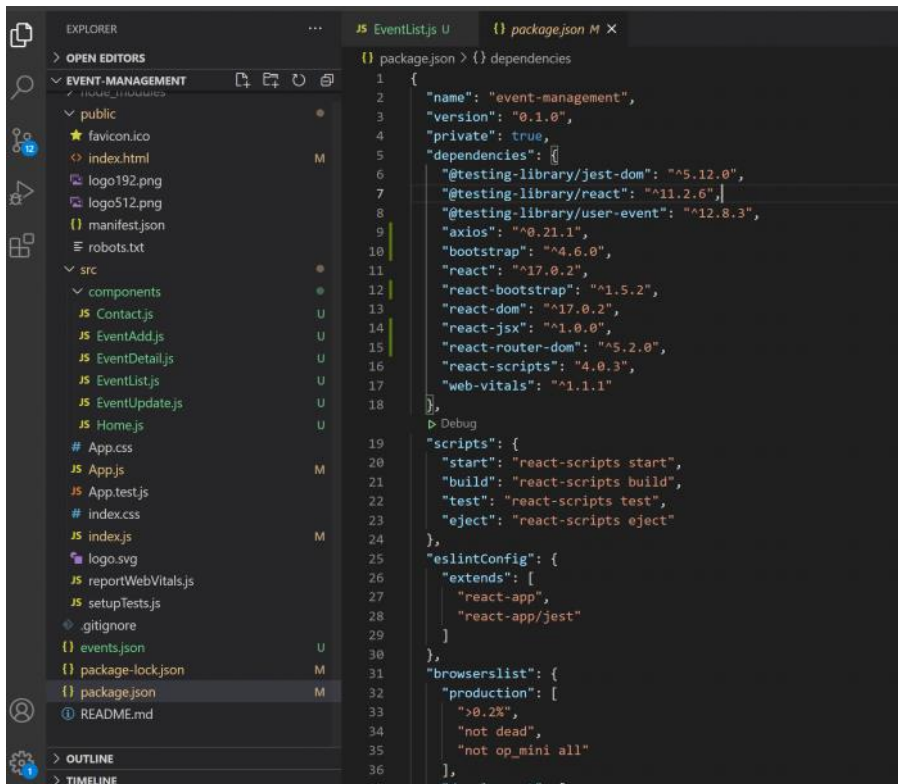
localhost:8000/events

```
[
  {
    "title": "Event1",
    "startdate": "2021-05-01T10:00:00.009",
    "enddate": "2021-05-30T23:00:55.008",
    "id": 1001
  },
  {
    "id": 1002,
    "title": "Event2",
    "startdate": "2021-05-10T10:00:00.008",
    "enddate": "2021-05-30T23:00:55.008"
  },
  {
    "id": 1003,
    "title": "Event3",
    "startdate": "2021-05-15T10:00:00.008",
    "enddate": "2021-05-30T23:00:55.008"
  },
  {
    "id": 1004,
    "title": "Event4",
    "startdate": "2021-05-20T10:00:00.008",
    "enddate": "2021-06-15T23:00:55.008"
  }
]
```

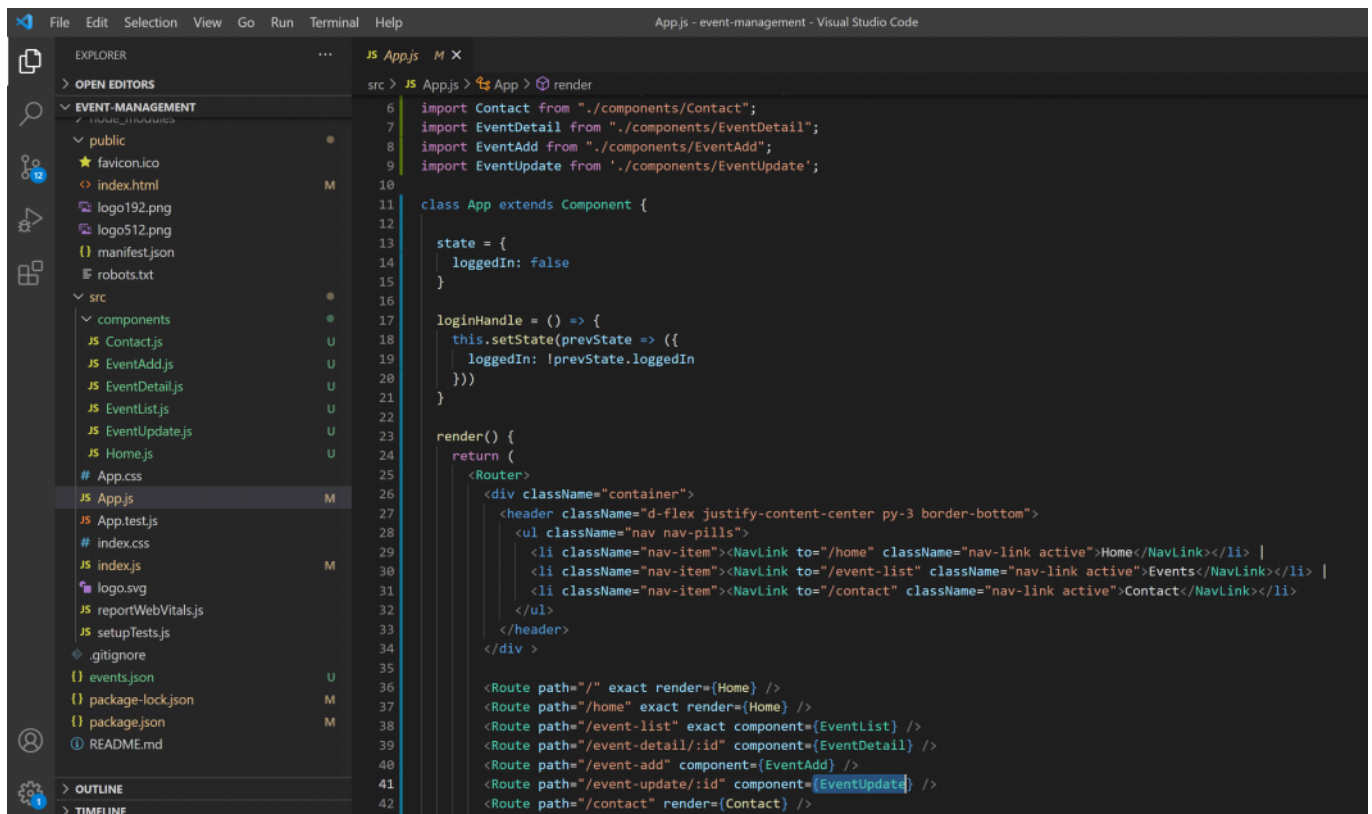


Create Event Management React JS Application:

- 1) Create React JS Application using below commands:
 - npm install create-react-app --global
 - create-react-app --version
 - create-react-app event-management
- 2) Install all the package dependencies



- 3) Open Index.js in editor
 - a. Import React and ReactDOM
 - b. Update ReactDOM.render(): document.getElementById('root')
- 4) Add Bootstrap components to index.html
- 5) Create Components under src -> components folder : Home Contact, EventList, EventDetail, EventAdd and EventUpdate
- 6) Open App.js and import all the component and create Routers
- 7) Configure NavLink for these Routers
- 8) User axios for get,put,push and delete operations



Home Events Contact

Home Page

Welcome to Event ManagementEvent Management allows users to create, read, update and delete Events and Event Types

The quick, brown fox jumps over a lazy dog. DJs flock by when MTV ax quiz prog. Junk MTV quiz graced by fox whelps. Bawds jog, flick quartz, vex nymphs. Waltz, bad nymph, for quick jigs vex! Fox nymphs grab quick-jived waltz. Brick quiz whangs jumpy veldt fox. Bright vixens jump; dozy fowl quack. Quick wafting zephyrs vex bold Jim. Quick zephyrs blow, vexing daft Jim. Sex-charged fop blew my junk TV quiz. How quickly daft jumping zebras vex. Two driven jocks help fax my big quiz. Quick, Baz, get my woven flax jodhpurs! "Now fax quiz Jack!" my brave ghost pled. Five quacking zephyrs jolt my wax bed. Flummoxed by job, kvetching W, zaps Iraq. Cozy sphinx waves quart jug of bad milk. A very bad quack might jinx zippy fowls. Few quips galvanized the mock jury box. Quick brown dogs jump over the lazy fox. The jay, pig, fox, zebra, and my wolves quack! Blowzy red vixens fight for a quick jump. Joaquin Phoenix was gazed by MTV for luck. A wizard's job is to vex chumps quickly in fog. Watch "Jeopardy!", Alex Trebek's fun TV quiz game. Woven silk pyjamas exchanged for blue quartz. Brawny gods just

Read More

Home Events Contact

Add New Event

Event List

Id	Title	Start Date	End Date	Actions	
				View Detail	Delete
1001	Event1	2021-05-01T10:00:00.009	2021-05-30T23:00:55.008	View Detail	Delete
1002	Event2	2021-05-10T10:00:00.008	2021-05-30T23:00:55.008	View Detail	Delete
1003	Event3	2021-05-15T10:00:00.008	2021-05-30T23:00:55.008	View Detail	Delete
1004	Event4	2021-05-20T10:00:00.008	2021-06-15T23:00:55.008	View Detail	Delete

Event Detail

Details of
Event Id: 1001
Event Title: Event1
Event Start Date: 2021-05-01T10:00:00.009
Event End Date: 2021-05-30T23:00:55.008
<div>Delete Update Back</div>

Add New Event

Event Title
Event5
Event Start Date
2021-05-15T10:00:00.009
Event End Date
2021-08-30T10:00:00.008
Add Event

Home Events Contact

Add New Event

Event List

Id	Title	Start Date	End Date	Actions
1001	Event1	2021-05-01T10:00:00.009	2021-05-30T23:00:55.008	View Detail Delete
1002	Event2	2021-05-10T10:00:00.008	2021-05-30T23:00:55.008	View Detail Delete
1003	Event3	2021-05-15T10:00:00.008	2021-05-30T23:00:55.008	View Detail Delete
1004	Event4	2021-05-20T10:00:00.008	2021-06-15T23:00:55.008	View Detail Delete
1005	Event5	2021-05-15T10:00:00.009	2021-08-30T10:00:00.008	View Detail Delete

Home Events Contact

Update Event

Event Title
Event511
Event Start Date
2021-05-15T10:00:00.009
Event End Date
2021-08-30T10:00:00.008
Update

localhost:3000/event-update/1005

localhost:3000 says
Record will be updated for ID : 1005

OK

Update Event

Event Title

Event511

Event Start Date

2021-05-15T10:00:00.009

Event End Date

2021-08-30T10:00:00.008

Update

localhost:3000/event-list

HomeEventsContact

Add New Event

Event List

Id	Title	Start Date	End Date	Actions	
1001	Event1	2021-05-01T10:00:00.009	2021-05-30T23:00:55.008	View Detail	Delete
1002	Event2	2021-05-10T10:00:00.008	2021-05-30T23:00:55.008	View Detail	Delete
1003	Event3	2021-05-15T10:00:00.008	2021-05-30T23:00:55.008	View Detail	Delete
1004	Event4	2021-05-20T10:00:00.008	2021-06-15T23:00:55.008	View Detail	Delete
1005	Event511	2021-05-15T10:00:00.009	2021-08-30T10:00:00.008	View Detail	Delete

localhost:3000/event-list

localhost:3000 says
Event Deleted with Id 1005

OK

Add New Event

Event List

Id	Title	Start Date	End Date	Actions
1001	Event1	2021-05-01T10:00:00.009	2021-05-30T23:00:55.008	<button>View Detail</button> <button>Delete</button>
1002	Event2	2021-05-10T10:00:00.008	2021-05-30T23:00:55.008	<button>View Detail</button> <button>Delete</button>
1003	Event3	2021-05-15T10:00:00.008	2021-05-30T23:00:55.008	<button>View Detail</button> <button>Delete</button>
1004	Event4	2021-05-20T10:00:00.008	2021-06-15T23:00:55.008	<button>View Detail</button> <button>Delete</button>
1005	Event511	2021-05-15T10:00:00.009	2021-08-30T10:00:00.008	<button>View Detail</button> <button>Delete</button>

localhost:3000/event-list

HomeEventsContact

Add New Event

Event List

Id	Title	Start Date	End Date	Actions
1001	Event1	2021-05-01T10:00:00.009	2021-05-30T23:00:55.008	<button>View Detail</button> <button>Delete</button>
1002	Event2	2021-05-10T10:00:00.008	2021-05-30T23:00:55.008	<button>View Detail</button> <button>Delete</button>
1003	Event3	2021-05-15T10:00:00.008	2021-05-30T23:00:55.008	<button>View Detail</button> <button>Delete</button>
1004	Event4	2021-05-20T10:00:00.008	2021-06-15T23:00:55.008	<button>View Detail</button> <button>Delete</button>