

Project 01 - Building an Event Finder App in React

Platform : VS Code

Steps :

Step 1 : Install the necessary dependencies

Install the following libraries using npm

- react-router-dom : enable routing in React
- react-redux : enable redux for state management in Redux
- react-redux-thunk : enable redux with asynchronous ability (for CRUD using Redux)
- axios : make API calls
- bootstrap : enable RWD (responsive web design)

```
npm i react-router-dom react-redux redux redux-thunk axios bootstrap
```

Create the react app by entering the following in terminal

```
npx create-react-app event-finder-app
```

Step 2 : Project Folder Structure

In the src folder, create the folders, subfolders and subfolders in the following structure

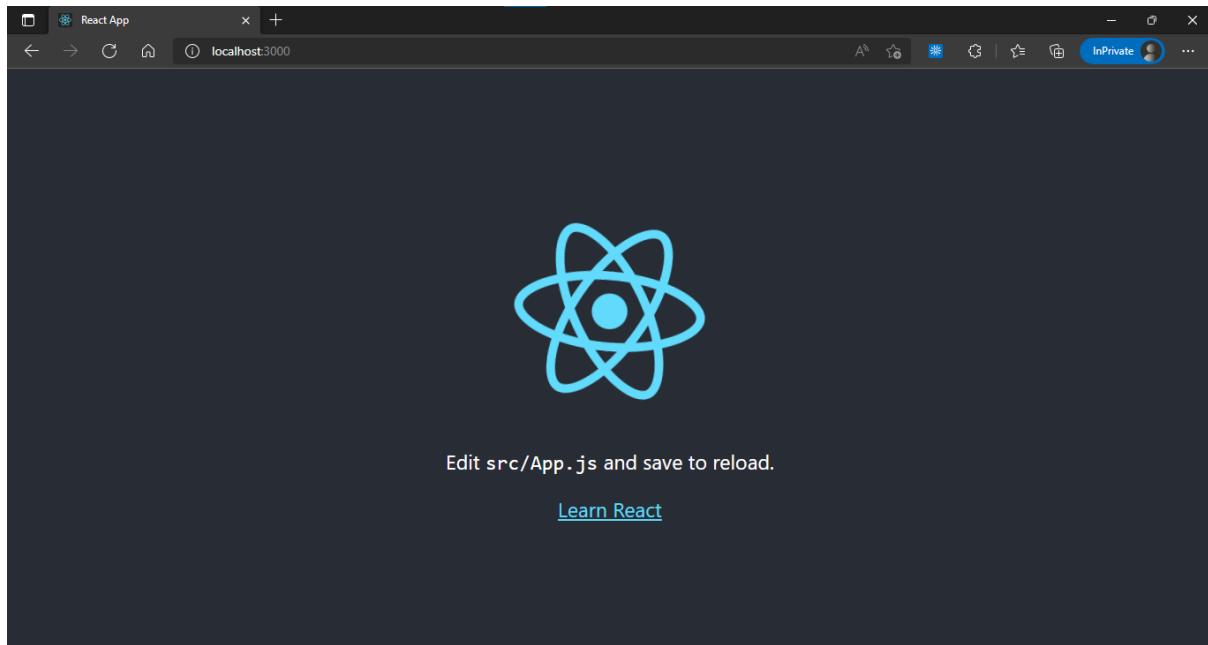
- a. event_module
 - i. components
 - 1. add_event.js : form with logic to create an event
 - 2. credits.js : attribute links for pictures used
 - 3. navbar.js : navbar with routing links
 - 4. page_default.js : link to navbar component
 - 5. search_event.js : logic to find events by ID, date & venue, with options to update & delete
 - 6. show_events.js : logic to display events with pagination options
 - 7. update_event.js: form with logic to update an event
 - ii. database_files
 - 1. events.json : data for dummy API for CRUD
 - iii. redux
 - 1. actions
 - a. event_actions.js : function definitions to implement CRUD methods
 - b. event_methods.js : methods with types & payloads
 - c. event_types.js : types of events
 - 2. reducers
 - a. combine_reducer.js : combine all reducers
 - b. event_reducer.js : reducer function for different types of API calls
 - 3. store.js : configure redux store with reducer parameters & apply thunk middleware
 - iv. services
 - 1. event-services.js : API URLs & functions

Step 3 : Launch React App

Launch the React app on default port (3000) by entering the following in terminal

npm start

launch the link `localhost:3000` in a new browser

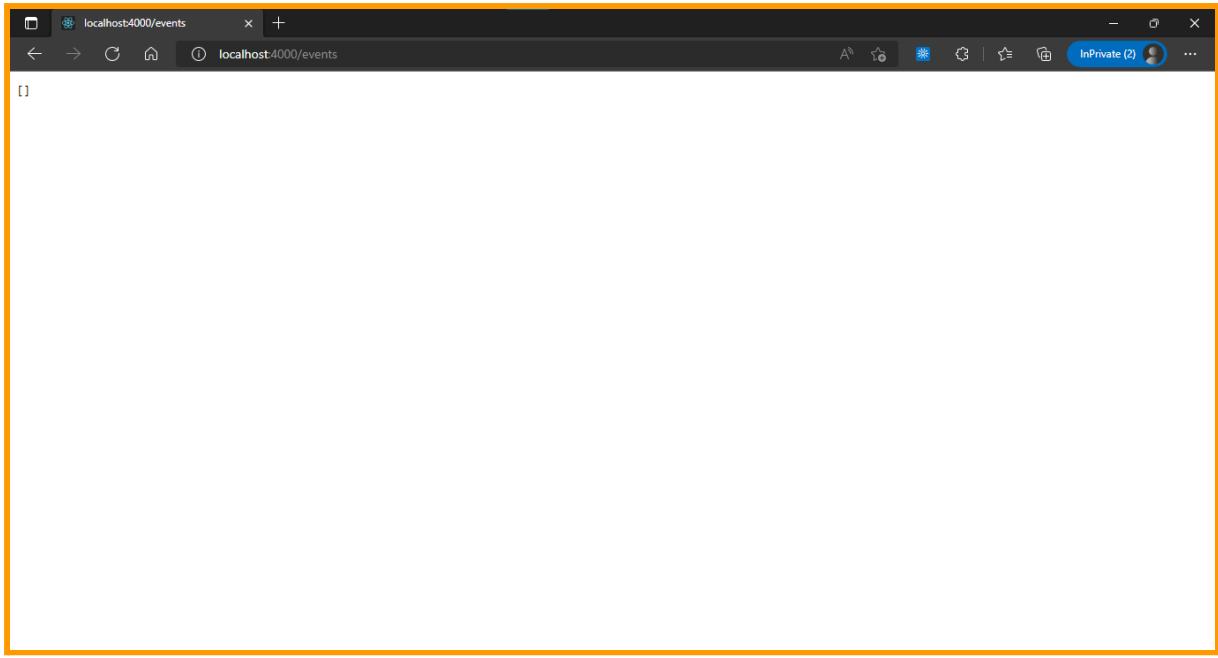


Step 4 : Launch JSON server

Setup json server to serve the database json file on port 4000, as 3000 is in use by React

json-server --watch .\src\user_defined\database_files\events.json --port 4000

```
events.json
{
  "events": [
    {
      "ename": "",
      "evenue": "",
      "edate": "",
      "edescription": "",
      "id": ""
    }
  ]
}
```



import bootstrap css & bootstrap bundle in app.js to enable bootstrap

```
import "bootstrap/dist/css/bootstrap.min.css";
import "bootstrap/dist/js/bootstrap.bundle.min";
```

Add photo as background image

App.css

```
...
.logoarea {
  background-image:
    url('https://images.unsplash.com/photo-1522158637959-30385a09e0da?ixlib=rb-1.2.1&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w=870&q=80');
  background-position-y: 225px;
  height: 100px;
  align-items: center;
  color: khaki;
}
```

Step 5 : Configure Redux Store & logic for State Management

Add the store as a provider for App.js which contains the logic for all the components to display in the browser. This will enable state management in all the components referenced in App.js and all below.

index.js

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';
import { Provider } from 'react-redux';
```

```

import { store } from './event_module/redux/store';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <Provider store={store}>
      <App />
    </Provider>
  </React.StrictMode>
);

reportWebVitals();

```

Add the banner with the title of the App and an image background

App.js

```

import './App.css';
import "bootstrap/dist/css/bootstrap.min.css";
import "bootstrap/dist/js/bootstrap.bundle.min";
import PageDefault from './event_module/components/page_default';

function App() {
  return (
    <div className='container'>
      <div className='logoarea d-flex justify-content-center'>
        <h1 className='bg-secondary bg-gradient'>Wazzup Event Horizon</h1>
      </div>
      <PageDefault/>
    </div>
  );
}

export default App;

```

Configure Event Actions

Add the API URL of the fake API (json server) to the environment variables

.env

```
REACT_APP_API_URL=http://localhost:4000/events
```

Enter the API calls for different CRUD methods in event-services.js, which will connect the buttons in the application to the different CRUD methods like get (retrieve data), post (send data), put (update data) & delete (delete data)

event-services.js

```

import axios from 'axios'

// const url = 'http://localhost:4000/events';
const url = process.env.REACT_APP_API_URL;

class EventServices{
  create(data) {
    return axios.post(url, data.events)
  }
}

```

```

getAll() {
    return axios.get(url)
}
get(id) {
    return axios.get(` ${url}/${id}`)
}
update(id, data) {
    return axios.put(` ${url}/${id}` , data)
}
delete(id) {
    console.log(`inside event services : id : ${id}`)
    return axios.delete(` ${url}/${id}`)
}
findByDate(date) {
    return axios.get(` ${url}/?edate=${date}`)
}
findByVenue(venue) {
    return axios.get(` ${url}/?evenue=${venue}`)
}
}

export default new EventServices();

```

Enter the different event action types for the reducer function. Also add the mapToProps constant which will update the state of the component for each method call in each component

```

event_types.js
export const CREATE_EVENT = "CREATE_EVENT";

export const RETRIEVE_EVENTS = "RETRIEVE_EVENTS";

export const UPDATE_EVENT = "UPDATE_EVENT";

export const DELETE_EVENT = "DELETE_EVENT";

export const SELECT_DATATYPE = "SELECT_DATATYPE";

export const mapStateToProps = (state) => {
    return {
        data : state.payload
    }
}

```

Add the event methods with data types and payloads for the reducer function. Whatever option is matched in the switch function of the reducer to the event types will return the respective payload

```

event_methods.js
import { CREATE_EVENT, DELETE_EVENT, RETRIEVE_EVENTS, SELECT_DATATYPE, UPDATE_EVENT } from "./event_types"

export const createAnEvent = (data) => {
    return {
        type : CREATE_EVENT,
        payload : data
    }
}

```

```
}

export const getAllEvents = (data) => {
  return {
    type : RETRIEVE_EVENTS,
    payload : data
  }
}

export const getEventById = (data) => {
  return {
    type : RETRIEVE_EVENTS,
    payload : data
  }
}

export const updateEventById = (data) => {
  return {
    type : UPDATE_EVENT,
    payload : data
  }
}

export const deleteEventById = (id) => {
  console.log(`inside event methods : id ${id}`)
  return {
    type : DELETE_EVENT,
    payload : id
  }
}

export const getEventByDate = (data) => {
  return {
    type : RETRIEVE_EVENTS,
    payload : data
  }
}

export const getEventByVenue = (data) => {
  return {
    type : RETRIEVE_EVENTS,
    payload : data
  }
}

export const getSelectedDataType = (data) => {
  return {
    type : SELECT_DATATYPE,
    payload : data
  }
}
```

```
}
```

The event actions will map the data type and payload to the axios API methods mentioned in event_services.js and dispatch it to the store, where the state is updated and retrieved in the components accordingly

```
event_actions.js
```

```
import EventServices from "../../services/event-services"
import { createAnEvent, deleteEventById, getAllEvents, getEventByDate, getEventById,
getEventByVenue, getSelectedDataType, updateEventById } from "./event_methods";

export const createEvent = (events) => {
  return (dispatch) =>{
    return EventServices.create({events})
    .then(response => {
      dispatch(createAnEvent(response.data))
    })
    .catch(err=>{throw(err)})
  }
}

export const retrieveEvents = () => {
  return (dispatch) => {
    return EventServices.getAll()
    .then(response => {
      console.log("in event actions, get all", response.data)
      dispatch(getAllEvents(response.data))
    })
    .catch(err => {throw(err)})
  }
}

export const findEventByID = (id) => {
  return (dispatch) => {
    return EventServices.get(id)
    .then(response => {
      dispatch(getEventById(response.data))
    })
    .catch(err => {throw(err)})
  }
}

export const updateEvent = (id, data) => {
  return (dispatch) => {
    return EventServices.update(id, data)
    .then(response => {
      dispatch(updateEventById(response.data))
    })
    .catch(err => {throw(err)})
  }
}
```

```

export const deleteEvent = (id) => {
  console.log(`inside event actions : delete : id : ${id}`)
  return (dispatch) => {
    return EventServices.delete(id)
    .then(response => {
      console.log(`inside event actions : response.data : ${response.data}`)
      dispatch(deleteEventById(response.data))
    })
    .catch(err => {throw(err)})
  }
}

export const findEventByDate = (date) => {
  return (dispatch) => {
    return EventServices.findByDate(date)
    .then(response => {
      dispatch(getEventByDate(response.data))
    })
    .catch(err => {throw(err)})
  }
}

export const findEventByVenue = (venue) => {
  return (dispatch) => {
    return EventServices.findByVenue(venue)
    .then(response => {
      dispatch(getEventByVenue(response.data))
    })
    .catch(err => {throw(err)})
  }
}

export const selectDataTypes = (info) =>{
  return (dispatch) => {
    dispatch(getSelectedDataType(info))
  }
}

```

Configure Event Reducers

Create a reducer function which sets the initial state as an empty array (multiple values) and uses a switch function to match event types to event_actions.js & event_methods.js to return the state (if required) and the respective data payload

```

event_reducer.js
import { CREATE_EVENT, DELETE_EVENT, RETRIEVE_EVENTS, SELECT_DATATYPE, UPDATE_EVENT } from "../actions/event_types";

export default function EventReducer(state=[], action){
  switch(action.type){
    case CREATE_EVENT:
      return [...state, action.payload]
    case RETRIEVE_EVENTS:

```

```

        return action.payload
    case UPDATE_EVENT:
        if(state.id === action.payload.id){
            return {...state, ...action.payload}
        }else{
            return state
        }
    case DELETE_EVENT:
        console.log("in event reducer delete events:",action.payload)
        return action.payload
    case SELECT_DATATYPE:
        return action.payload
    default:
        return state
    }
}

```

If there are multiple reducer functions for different tasks, like authorization/login then combine_reducer combines all the reducer functions into a single reducer function which can be used to create the store

```

combine_reducer.js
import { combineReducers } from "redux";
import payload from './event_reducer';

export default combineReducers({
    payload : payload
});

```

Configure Redux Store

create the store with thunk middleware using the combine reducer

```

store.js
import { applyMiddleware, createStore } from "redux";
import thunk from "redux-thunk";
import { retrieveEvents } from "./actions/event_actions";
import combineReducers from "./reducers/combine_reducer";

export const store = createStore(combineReducers, applyMiddleware(thunk));
store.dispatch(retrieveEvents())
store.subscribe(()=>console.log("in store state:", store.getState()));

```

Step 6 : Configure Components (view logic)

page_default.js contains the business logic to display the navbar

```

page_default.js
import React from 'react'
import Navbar from './navbar'

export default function PageDefault() {
    return (
        <div className="row align-self-center">

```

```

        <div className="col"/>
        <div className="col-8 text-white">
            <Navbar/>
        </div>
        <div className="col"/>
    </div>
)
}

```

Navbar

Logic to display the navbar with the selected component information

navbar.js

```

import React from 'react'
import { BrowserRouter, Link, Route, Routes } from 'react-router-dom'
import AddEvent from './add_event'
import Credits from './credits'
import SearchEvent from './search_event'
import ShowEvents from './show_events'
import UpdateEvent from './update_event'

export default function Navbar() {
    return (
        <BrowserRouter>
            <nav className="row">
                <div className="col"/>
                <div className="col-8">
                    <div className="nav nav-tabs" role="tablist">
                        <button className="nav-link bg-dark" data-bs-toggle="tab">
                            <Link to={'/show'}>Show Events</Link>
                        </button>
                        <button className="nav-link bg-dark" data-bs-toggle="tab">
                            <Link to={'/search'}>Search Event</Link>
                        </button>
                        <button className="nav-link bg-dark" data-bs-toggle="tab">
                            <Link to={'/add'}>Create Event</Link>
                        </button>
                        <button className="nav-link bg-dark" data-bs-toggle="tab">
                            <Link to={'/credits'}>Credits</Link>
                        </button>
                    </div>
                </div>
                <div className="col"/>
            </nav>

            <Routes>
                <Route exact path="/show" element={<ShowEvents/>}/>
                <Route exact path="/search" element={<SearchEvent/>}/>
                <Route exact path="/add" element={<AddEvent/>}/>
                <Route exact path="/credits" element={<Credits/>}/>
                <Route path="/update/:id" element={<UpdateEvent/>}/>
            </Routes>

```

```
        </BrowserRouter>
    )
}
```

CREATE

use forms to send the data to the API server with connect to connect to the redux store and bootstrap classes for RWD. The function createEvent along with other functions to be executed during runtime can be attached as onClick button events, which have to be bound to the functions to reflect changes without reverting.

```
add_event.js
import React, { Component } from 'react'
import { connect } from 'react-redux'
import { createEvent } from '../redux/actions/event_actions'

class AddEvent extends Component {
  constructor(props) {
    super(props)

    this.ename = React.createRef();
    this.evenue = React.createRef();
    this.edate = React.createRef();
    this.edescription = React.createRef();

    this.state = {}

    this.saveEvent = this.saveEvent.bind(this);
  }

  saveEvent(){
    let events = {
      ename : this.ename.current.value,
      evenue : this.evenue.current.value,
      edate : this.edate.current.value,
      edescription : this.edescription.current.value
    }

    this.props.createEvent(events)
  }

  render() {
    return (
      <div>
        <h3 className="text-center bg-secondary">Create an Event</h3>
        <hr/>
        <div className="card center">
          <div className="card-body bg-dark">
            <div className="row">
              <div className="col">
                <label className="col-form-label">Name</label>
              </div>
              <div className="col-9">
```

```

        <input type="text" className="form-control mb-2" ref={this.ename}/>
    </div>
</div>
<div className="row">
    <div className="col">
        <label className="col-form-label">Venue</label>
    </div>
    <div className="col-9">
        <input type="text" className="form-control mb-2" ref={this.evenue}/>
    </div>
</div>
<div className="row">
    <div className="col">
        <label className="col-form-label">Date</label>
    </div>
    <div className="col-9">
        <input type="date" className="form-control mb-2" ref={this.edate}/>
    </div>
</div>
<div className="row">
    <div className="col">
        <label className="col-form-label">Description</label>
    </div>
    <div className="col-9">
        <textarea className="form-control mb-2" ref={this.edescription}/>
    </div>
</div>
<div className="row">
    <div className="col"/>
    <button className="btn btn-success col-5"
onClick={this.saveEvent}>Submit</button>
    <div className="col"/>
    </div>
</div>
</div>
)
}
}

export default connect(null, {createEvent})(AddEvent);

```

READ

the data to be read or retrieved and displayed in browser is in the form of an array, hence using index and pagination with a list mapping will allow displaying the data in a neat and arranged manner (aesthetically pleasing).

show_events.js

```

import React, { useState } from 'react';
import { connect } from "react-redux";
import { retrieveEvents } from '../redux/actions/event_actions';
import { mapStateToProps } from '../redux/actions/event_types'

```

```
function ShowEvents({data}) {

  const [currentIndex, setCurrentIndex] = useState(0)

  const previousPage = (currentIndex) => {
    if(currentIndex>0){
      console.log("previous", currentIndex)
      return setCurrentIndex(currentIndex - 5)
    }
  }

  const nextPage = (currentIndex) => {
    if(currentIndex<=data.length/5){
      console.log("next", currentIndex)
      return setCurrentIndex(currentIndex + 5)
    }
  }

  let response
  !data ?
  response = <p><strong>No Data Found</strong></p> :
  response =
  (
    <div>
      {
        data.slice(currentIndex,currentIndex+5).map((x) =>
          <div className="card center" key={x.id}>
            <div className="card-body bg-dark">
              <h5 className="card-title">{x.ename}</h5>
              <p className="card-text">
                Venue: {x.evenue} | Date: {x.edate}
                <br/>
                {x.edescription}
              </p>
            </div>
          </div>
        )
      }
    </div>
  )
}

let pagination =
(
  <nav>
    <ul className="pagination">
      <li className="page-item">
        <button className="page-link"
onClick={()=>previousPage(currentIndex)}>Previous</button>
      </li>
      <li className="page-item">
```

```

        <p className="page-link">Page {Math.ceil(currentIndex/5)+1} of
{Math.ceil(data.length/5)}</p>
      </li>
      <li className="page-item">
        <button className="page-link" onClick={()=>nextPage(currentIndex)}>Next</button>
      </li>
    </ul>
  </nav>
)

return (
  <div>
    <h3 className="text-center bg-secondary">List of Events</h3>
    <hr/>
    {response}
    <hr/>
    <div className="row">
      <div className="col">
        <div className="col-5">
          {pagination}
        </div>
        <div className="col">
        </div>
      </div>
    </div>
  )
}

export default connect(mapStateToProps, { retrieveEvents })(ShowEvents)

```

Find/Search

Create the logic to search by ID, date & venue, depending on the option chosen by utilizing dropdown. The data retrieved will be an object in case of ID & array (single or multiple lines) in case of venue or date. If statement can be used to match the data to the presentation format. For each record displayed, there is an update and delete button.

search_event.js
<pre> import React, { Component } from 'react' import { connect } from 'react-redux' import { Link } from 'react-router-dom' import { findEventByID, findEventByDate, findEventByVenue, selectDataTypes, deleteEvent } from '../redux/actions/event_actions' import { mapStateToProps } from '../redux/actions/event_types' import { store } from '../redux/store' class SearchEvent extends Component { constructor(props) { super(props) this.eoptions = React.createRef(); this.datatype = React.createRef(); } } </pre>

```

this.state = {}

this.handleDropdownOptions = this.handleDropdownOptions.bind(this);
this.startSearch = this.startSearch.bind(this);
this.showResults = this.showResults.bind(this);
this.getIdData = this.getIdData.bind(this);
this.deleteData = this.deleteData.bind(this);
}

handleDropdownOptions(event){
  this.props.selectDataTypes(event.target.value)
}

startSearch(){
  switch(store.getState().payload){
    case "id":
      this.props.findEventByID(this.eoptions.current.value)
      break
    case "date":
      this.props.findEventByDate(this.eoptions.current.value)
      break
    case "venue":
      this.props.findEventByVenue(this.eoptions.current.value)
      break
    default:
      alert("search field not found")
  }
}

getIdData(e){
  this.props.findEventByID(e)
}

deleteData(e){
  console.log(`in search event : delete data id : ${e}`)
  this.props.deleteEvent(e)
}

showResults(){
  let data = store.getState().payload
  let response
  if(!data){
    response = <p><strong>No Data Found</strong></p>
  }else if(Array.isArray(data)==false){
    response =
    (
      <div className="card center">
        <div className="card-body bg-dark">
          <h5 className="card-title">{data.ename}</h5>
          <p className="card-text">
            Venue: {data.evenue} | Date: {data.edate}

```

```

        <br/>
        {data.edescription}
    </p>
    <button className="btn btn-success mx-1"
onClick={()=>this.getIdData(data.id)}><Link className="text-decoration-none text-white"
to={`/update/${data.id}`}>Update</Link></button>
    <button className="btn btn-danger mx-1"
onClick={()=>this.deleteData(data.id)}>Delete</button>
    </div>
    </div>
)
}else if(Array.isArray(data)==true){
    response =
(
    <div>
    {
        data.map((x) =>
            <div className="card center" key={x.id}>
                <div className="card-body bg-dark">
                    <h5 className="card-title">{x.ename}</h5>
                    <p className="card-text">
                        Venue: {x.venue} | Date: {x.edate}
                        <br/>
                        {x.edescription}
                    </p>
                    <button className="btn btn-success mx-1"
onClick={()=>this.getIdData(x.id)}><Link className="text-decoration-none text-white"
to={`/update/${x.id}`}>Update</Link></button>
                    <button className="btn btn-danger mx-1"
onClick={()=>this.deleteData(x.id)}>Delete</button>
                </div>
                </div>
            )
        }
    </div>
)
}
this.setState({response : response})
}

render(){
    let type
    if (Array.isArray(store.getState().payload)==false)
        type = store.getState().payload

    return (
        <div>
            <h3 className="text-center bg-secondary">Search Events</h3>

            <div className="container bg-dark py-2">
                <div className="row">

```

```

        <div className="col">
          <select className="h-100 d-inline-block mx-1 btn btn-primary"
            onChange={this.handleDropdownOptions} value={this.datatype} ref={this.datatype}>
            <option value="">---select---</option>
            <option value="id">Search By ID</option>
            <option value="date">Search By Date</option>
            <option value="venue">Search By Venue</option>
          </select>
        </div>
        <div className="col-4">
          <input className="h-100 d-inline-block mx-1 form-control" type={type}
            placeholder={`Enter ${type} to search`} ref={this.eoptions} style={{height:"40px"}}/>
        </div>
        <div className="col-2">
          <button className="btn btn-primary h-100 d-inline-block mx-1"
            onClick={this.startSearch}>Search</button>
        </div>
        <div className="col">
          <button className="btn btn-info h-100 d-inline-block mx-1"
            onClick={this.showResults}>Show Results</button>
        </div>
      </div>
      <hr/>
      {this.state.response}
    </div>
  )
}
}

export default connect(mapStateToProps, { findEventByID, findEventByDate, findEventByVenue,
  selectDataTypes, deleteEvent })(SearchEvent)

```

UPDATE

if the update button is clicked, then the logic redirects the user to the update page, where the data in the current record is shown in a fixed box, with blank fields for the data to be updated.

<code>update_event.js</code>
<pre> import React, { Component } from 'react' import { connect } from 'react-redux' import { updateEvent } from './redux/actions/event_actions' import { mapStateToProps } from './redux/actions/event_types' import { store } from './redux/store' class UpdateEvent extends Component { constructor(props) { super(props) this.ename = React.createRef(); this.evenue = React.createRef(); this.edate = React.createRef(); } }</pre>

```
this.edescription = React.createRef();

this.state = {}

this.updateEvent = this.updateEvent.bind(this)
}

updateEvent(){
let id = store.getState().payload.id

let event = {
  ename : this.ename.current.value,
  evenue : this.evenue.current.value,
  edate : this.edate.current.value,
  edescription : this.edescription.current.value
}

this.props.updateEvent(id, event)
}

render() {
  let data = store.getState().payload
  return (
    <div>
      <h3 className="text-center bg-secondary">Update an Event</h3>
      <hr/>
      <div className="card center">
        <div className="card-body bg-dark">
          <div className="row">
            <div className="col"/>
            <div className="col-5">
              <label className="col-form-label">Current</label>
            </div>
            <div className="col-5">
              <label className="col-form-label">Updated</label>
            </div>
          </div>
          <div className="row">
            <div className="col">
              <label className="col-form-label">Name</label>
            </div>
            <div className="col-5">
              <input className="form-control mb-2" value={data.ename} readOnly={true}/>
            </div>
            <div className="col-5">
              <input className="form-control mb-2" type="text" ref={this.ename} required
placeholder="Enter name to update"/>
            </div>
          </div>
          <div className="row">
            <div className="col">
```

```

        <label className="col-form-label">Venue</label>
    </div>
    <div className="col-5">
        <input className="form-control mb-2" value={data.event} readOnly={true}/>
    </div>
    <div className="col-5">
        <input className="form-control mb-2" type="text" ref={this.event} required
placeholder="Enter event to update"/>
    </div>
    </div>
    <div className="row">
        <div className="col">
            <label className="col-form-label">Date</label>
        </div>
        <div className="col-5">
            <input className="form-control mb-2" value={data.edate} readOnly={true}/>
        </div>
        <div className="col-5">
            <input className="form-control mb-2" type="date" ref={this.edate} required/>
        </div>
    </div>
    <div className="row">
        <div className="col">
            <label className="col-form-label">Description</label>
        </div>
        <div className="col-5">
            <textarea className="form-control mb-2" value={data.edescription}
readOnly={true}/>
        </div>
        <div className="col-5">
            <textarea className="form-control mb-2" ref={this.edescription} required
placeholder="Enter description to update"/>
        </div>
    </div>
    <div className="row justify-content-center">
        <button className="btn btn-success col-5"
onClick={this.updateEvent}>Submit</button>
    </div>
    </div>
    </div>
)
}

}

export default connect(mapStateToProps, {updateEvent})(UpdateEvent);

```

DELETE

The delete logic is contained in search_event.js, when the delete button is clicked, the respective function is called in event_methods.js.

Credits

Details of references used for pictures referenced in website

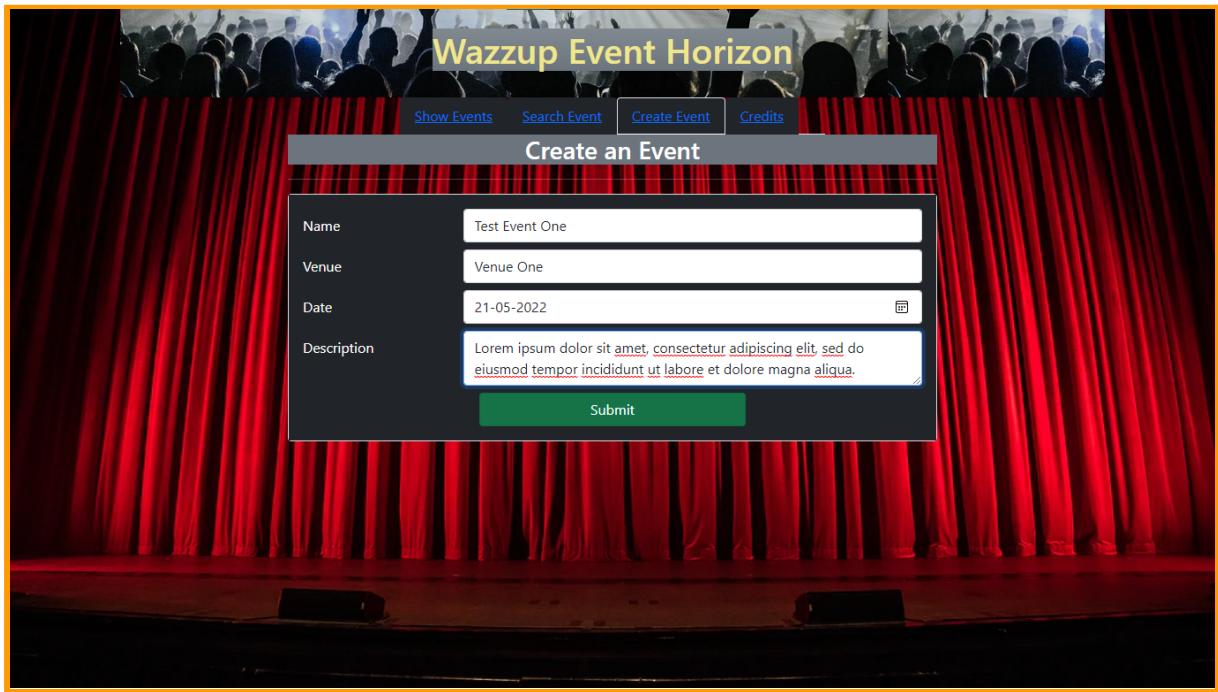
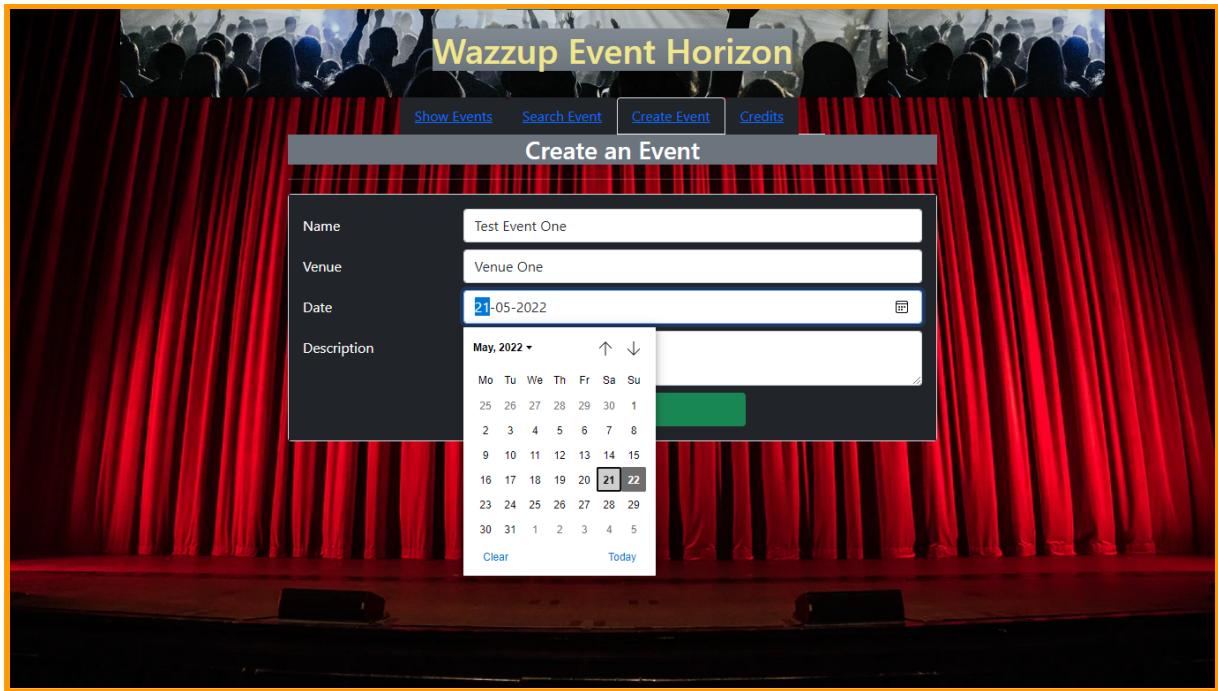
```
credits.js
import React from 'react'

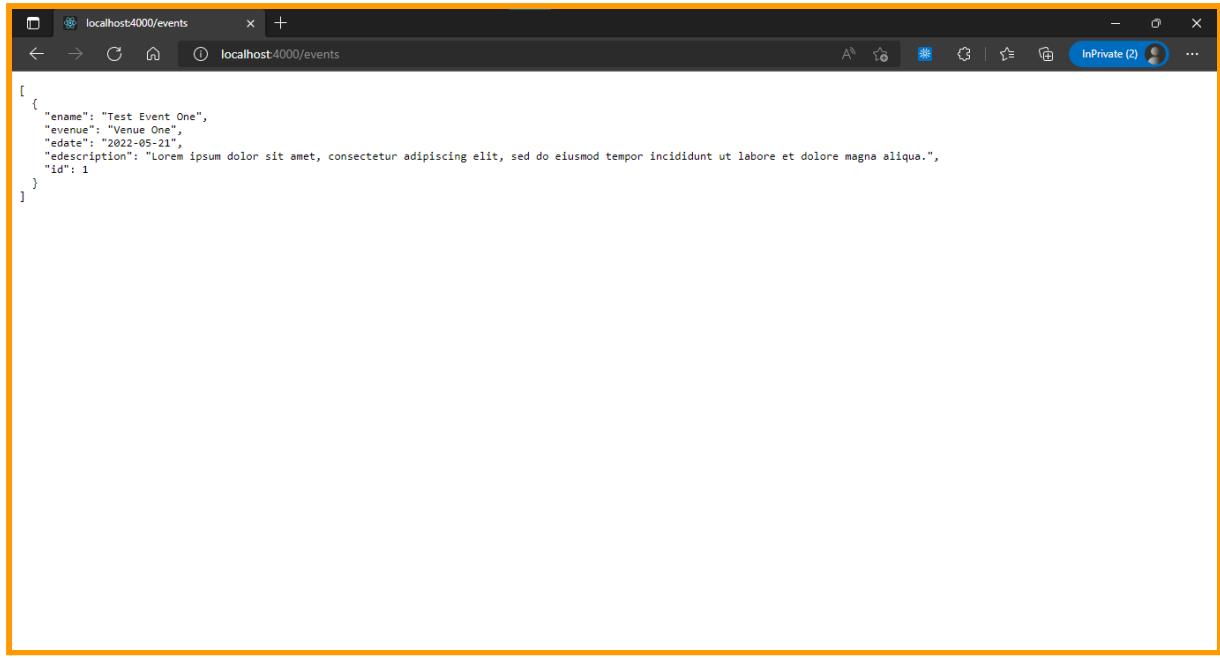
export default function Credits() {

    return (
        <div>
            <h3 className="text-center bg-secondary">Credits</h3>
            <hr/>
            <div className="card bg-dark">
                <div className="row">
                    <div className="col"/>
                    <div className="col-6 text-center">
                        <div className="card-title">Red Theatre Curtain Photo</div>
                        <div className="card-text">
                            
                            <p>Photo by Rob Laughter on Unsplash</p>
                            <a href="https://unsplash.com/photos/WW1jslnXgwM?utm_source=unsplash&utm_medium=referral
                                &utm_content=creditShareLink">Click Here to Visit</a>
                        </div>
                        <hr/>
                        <div className="card-title">Group of People Watching Concert Photo</div>
                        <div className="card-text">
                            
                            <p>Photo by Rachel Coyne on Unsplash</p>
                            <a href="https://unsplash.com/photos/U7HLzMO4SIY?utm_source=unsplash&utm_medium=referral&
                                utm_content=creditShareLink">Click Here to Visit</a>
                        </div>
                        </div>
                    </div>
                </div>
            </div>
        )
    }
}
```

Step 7 : Screenshots

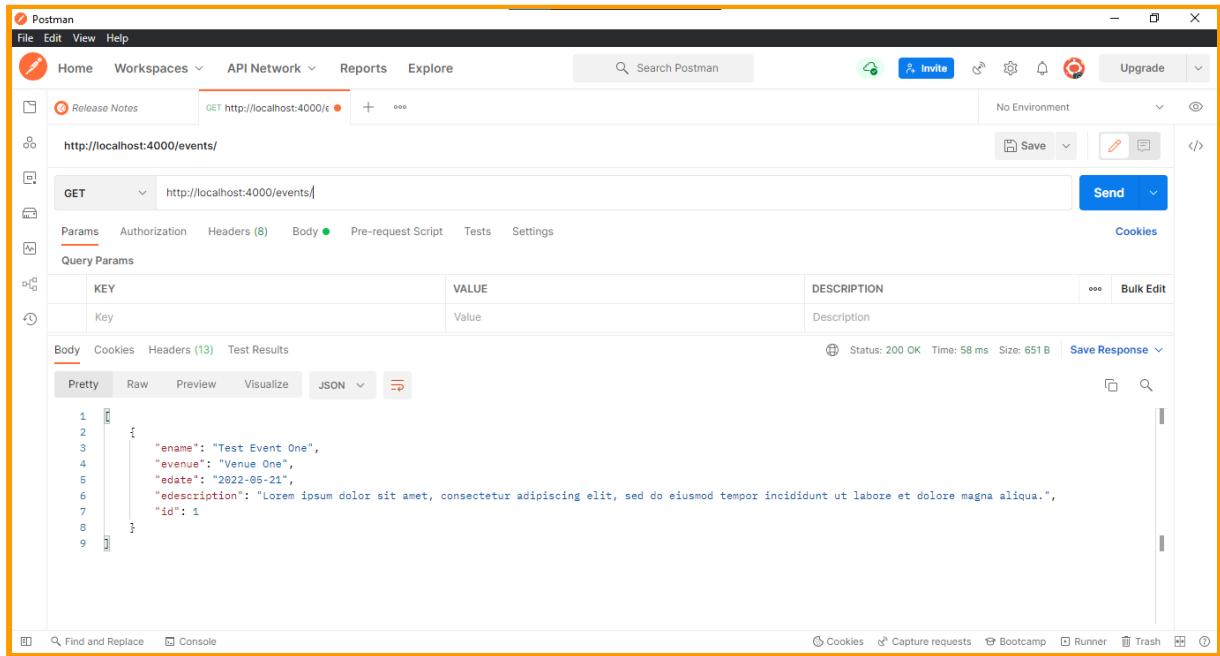
Screenshots of the various actions in browser displayed below





A screenshot of a Microsoft Edge browser window. The address bar shows 'localhost:4000/events'. The main content area displays a single JSON object:

```
[{"ename": "Test Event One", "evenue": "Venue One", "edate": "2022-05-21", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 1}]
```



A screenshot of the Postman application interface. The top navigation bar includes 'File', 'Edit', 'View', 'Help', 'Home', 'Workspaces', 'API Network', 'Reports', and 'Explore'. A search bar says 'Search Postman'.

The main workspace shows a collection named 'Release Notes' with a single item 'http://localhost:4000/events/'. A 'GET' request is selected with the URL 'http://localhost:4000/events/'. The 'Body' tab is active, showing the JSON response:

```
1 [ 2 { 3 "ename": "Test Event One", 4 "evenue": "Venue One", 5 "edate": "2022-05-21", 6 "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", 7 "id": 1 }]
```

Below the response, status information is displayed: 'Status: 200 OK', 'Time: 58 ms', and 'Size: 651 B'. The 'Pretty' tab is selected in the preview area.

Postman

File Edit View Help

Home Workspaces API Network Reports Explore

Search Postman

Release Notes POST http://localhost:4000/ + `ooo`

No Environment

Save `Save` `Export` `Import` `Copy` `Link`

http://localhost:4000/events/

POST http://localhost:4000/events/

Params Authorization Headers (8) Body Pre-request Script Tests Settings

Body (raw JSON)

```
1 POST
2   "ename": "Test Event Two",
3   "evenue": "Venue Two",
4   "edate": "2022-05-28",
5   "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.",
6   "id": 2
7 
```

Cookies Beautify

Body Cookies Headers (15) Test Results

Status: 201 Created Time: 34 ms Size: 746 B Save Response

Pretty Raw Preview Visualize JSON

Find and Replace Console

The screenshot shows the Postman interface with a POST request to 'http://localhost:4000/events/'. The request body contains two event objects in JSON format. The first event has an ID of 1 and the second has an ID of 2. Both events have placeholder values for name, venue, date, and description.

```
[{"id": 1, "ename": "Test Event One", "evenue": "Venue One", "edate": "2022-05-21", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua."}, {"id": 2, "ename": "Test Event Two", "evenue": "Venue Two", "edate": "2022-05-20", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua."}]
```

localhost4000/events

InPrivate (2)

```
[{"id": 1, "ename": "Test Event One", "evenue": "Venue One", "edate": "2022-05-21", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua."}, {"id": 2, "ename": "Test Event Two", "evenue": "Venue Two", "edate": "2022-05-20", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua."}]
```

The screenshot shows a Microsoft Edge browser window displaying the JSON response from the POST request. The response is a list of two event objects, each with an ID, name, venue, date, and description. The browser's developer tools are visible at the bottom.

The screenshot shows the Postman application interface. At the top, there's a navigation bar with 'File', 'Edit', 'View', 'Help', and a search bar labeled 'Search Postman'. Below the header, there are tabs for 'Home', 'Workspaces', 'API Network', 'Reports', and 'Explore'. A central workspace displays a request for 'GET http://localhost:4000/events'. The response status is '200 OK' with a time of '16 ms' and a size of '2.91 KB'. The response body is shown in JSON format:

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localhost:4000/events
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[{"ename": "Test Event Five", "evenue": "Venue Five", "edate": "2022-05-17", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 5}, {"ename": "Test Event Six", "evenue": "Venue Six", "edate": "2022-05-16", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 6}, {"ename": "Test Event Seven", "evenue": "Venue Seven", "edate": "2022-05-15", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 7}, {"ename": "Test Event Eight", "evenue": "Venue Eight", "edate": "2022-05-14", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 8}, {"ename": "Test Event Nine", "evenue": "Venue Nine", "edate": "2022-05-13", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 9}, {"ename": "Test Event Ten", "evenue": "Venue Ten", "edate": "2022-05-12", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 10}]
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Wazzup Event Horizon

Show Events Search Event Create Event Credits

List of Events

Test Event One
Venue: Venue One | Date: 2022-05-21
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Test Event Two
Venue: Venue Two | Date: 2022-05-20
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Test Event Three
Venue: Venue Three | Date: 2022-05-19
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Test Event Four
Venue: Venue Four | Date: 2022-05-18
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Test Event One
Venue: Venue One | Date: 2022-05-21
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

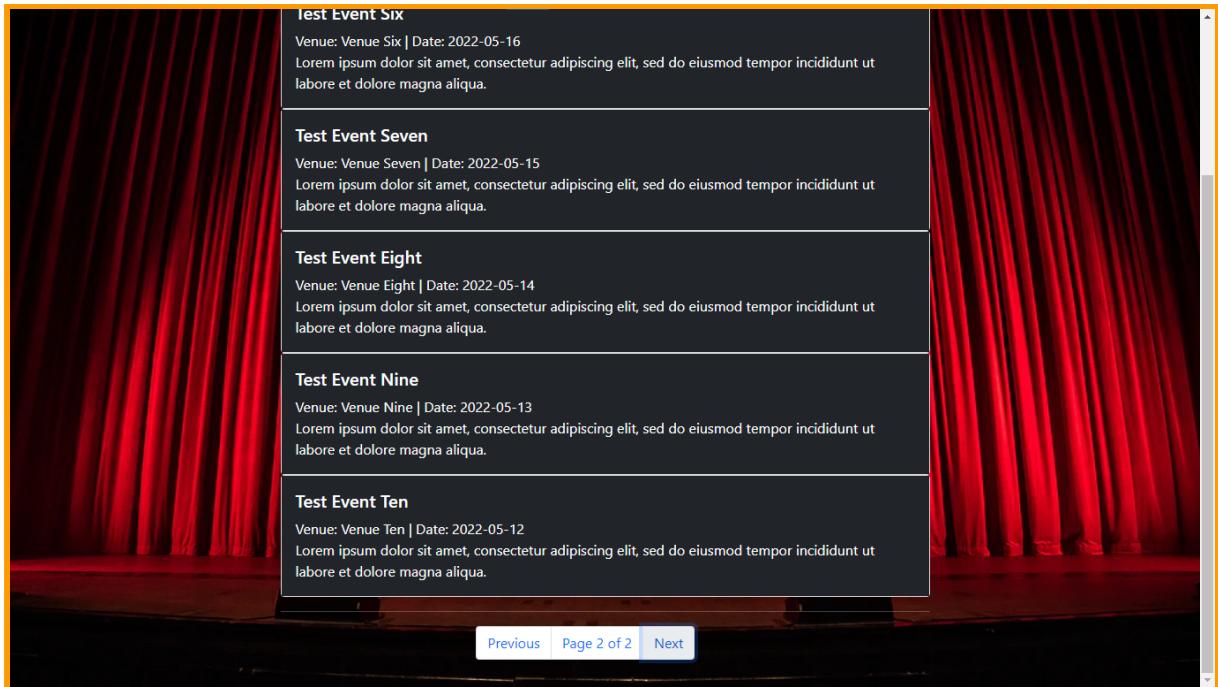
Test Event Two
Venue: Venue Two | Date: 2022-05-20
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Test Event Three
Venue: Venue Three | Date: 2022-05-19
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Test Event Four
Venue: Venue Four | Date: 2022-05-18
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Test Event Five
Venue: Venue Five | Date: 2022-05-17
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

[Previous](#) [Page 1 of 2](#) [Next](#)



Test Event Six
Venue: Venue Six | Date: 2022-05-16
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

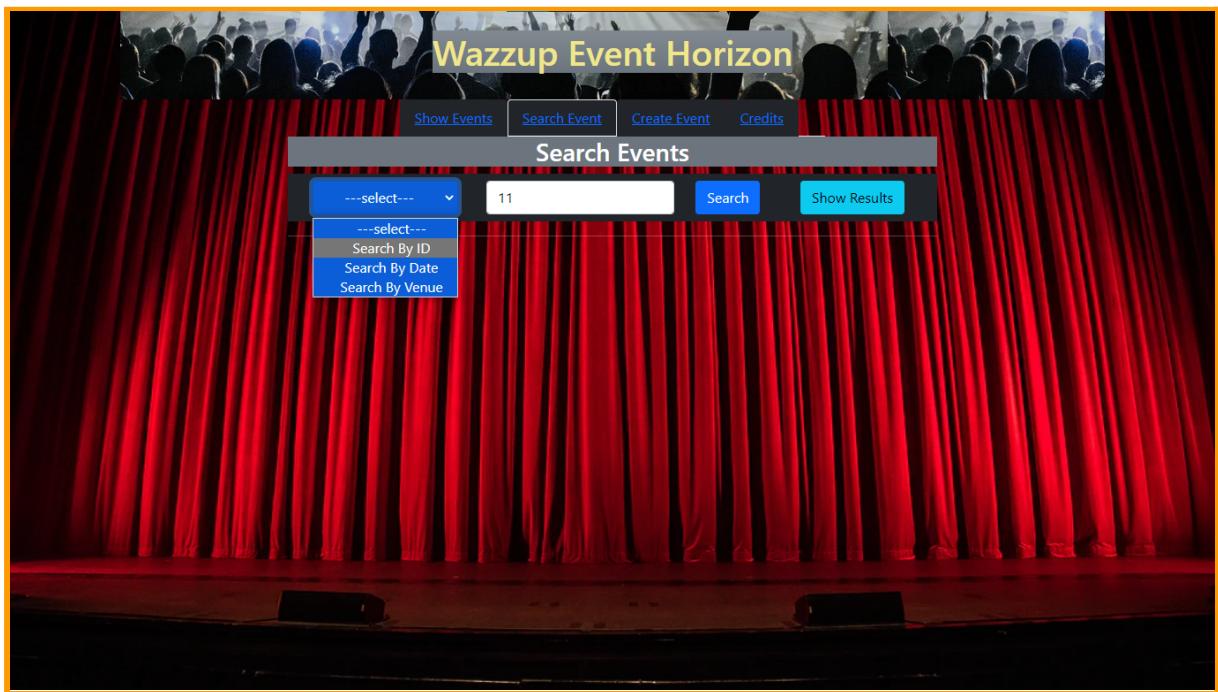
Test Event Seven
Venue: Venue Seven | Date: 2022-05-15
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Test Event Eight
Venue: Venue Eight | Date: 2022-05-14
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Test Event Nine
Venue: Venue Nine | Date: 2022-05-13
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Test Event Ten
Venue: Venue Ten | Date: 2022-05-12
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

[Previous](#) [Page 2 of 2](#) [Next](#)



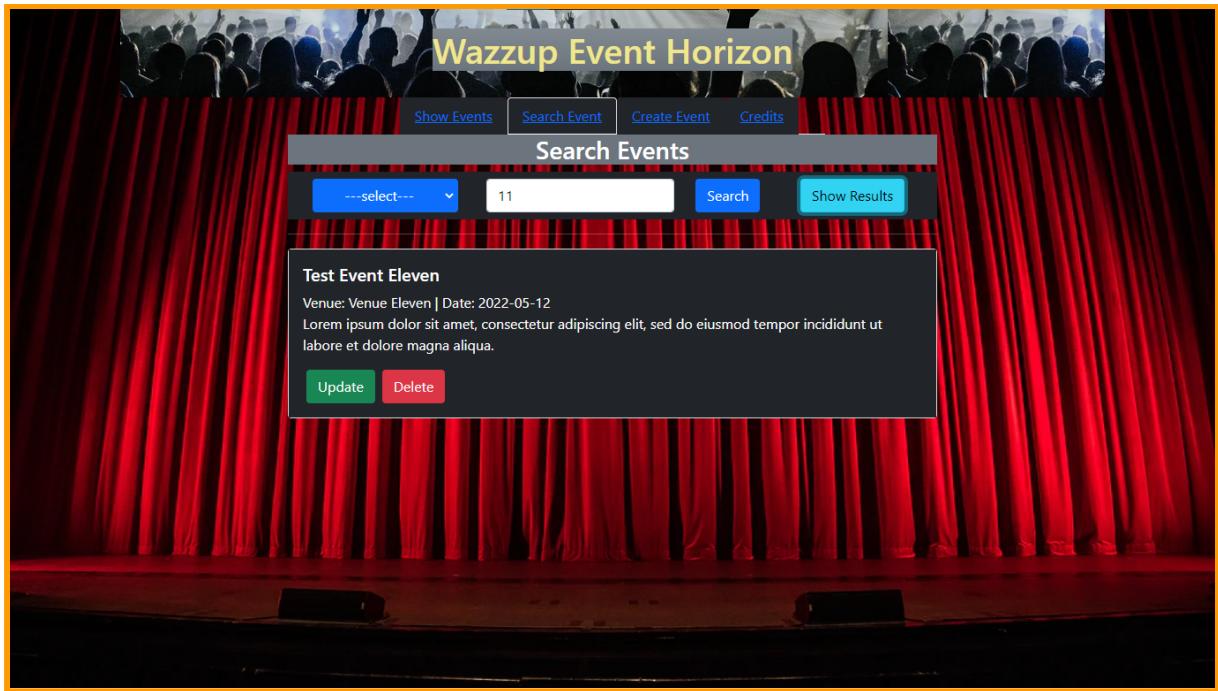
Wazzup Event Horizon

[Show Events](#) [Search Event](#) [Create Event](#) [Credits](#)

Search Events

---select--- [Search](#) [Show Results](#)

---select---
[Search By ID](#)
[Search By Date](#)
[Search By Venue](#)



Wazzup Event Horizon

Show Events [Search Event](#) [Create Event](#) [Credits](#)

Search Events

---select--- [Search](#) [Show Results](#)

Test Event Ten
Venue: Venue Ten | Date: 2022-05-12
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[Update](#) [Delete](#)

Test Event Eleven
Venue: Venue Eleven | Date: 2022-05-12
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

[Update](#) [Delete](#)

localhost:3000/update/11

Wazzup Event Horizon

Show Events [Search Event](#) [Create Event](#) [Credits](#)

Update an Event

Current	Updated
Name	<input type="text" value="Test Event Eleven"/>
Venue	<input type="text" value="Venue Eleven"/>
Date	<input type="text" value="2022-05-12"/> dd-mm-yyyy
Description	<input type="text" value="Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed"/>

[Submit](#)

Wazzup Event Horizon

Show Events [Search Event](#) [Create Event](#) [Credits](#)

Update an Event

	Current	Updated
Name	Test Event Eleven	Updated Test Event Eleven
Venue	Venue Eleven	Updated Venue Eleven
Date	2022-05-12	12-05-2022
Description		

Test Event Eleven
Venue: Venue Eleven | Date: 2022-05-12
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Updated Test Event Eleven
Venue: Updated Venue Eleven | Date: 2022-05-12
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

[Submit](#)

Wazzup Event Horizon

Show Events [Search Event](#) [Create Event](#) [Credits](#)

Search Events

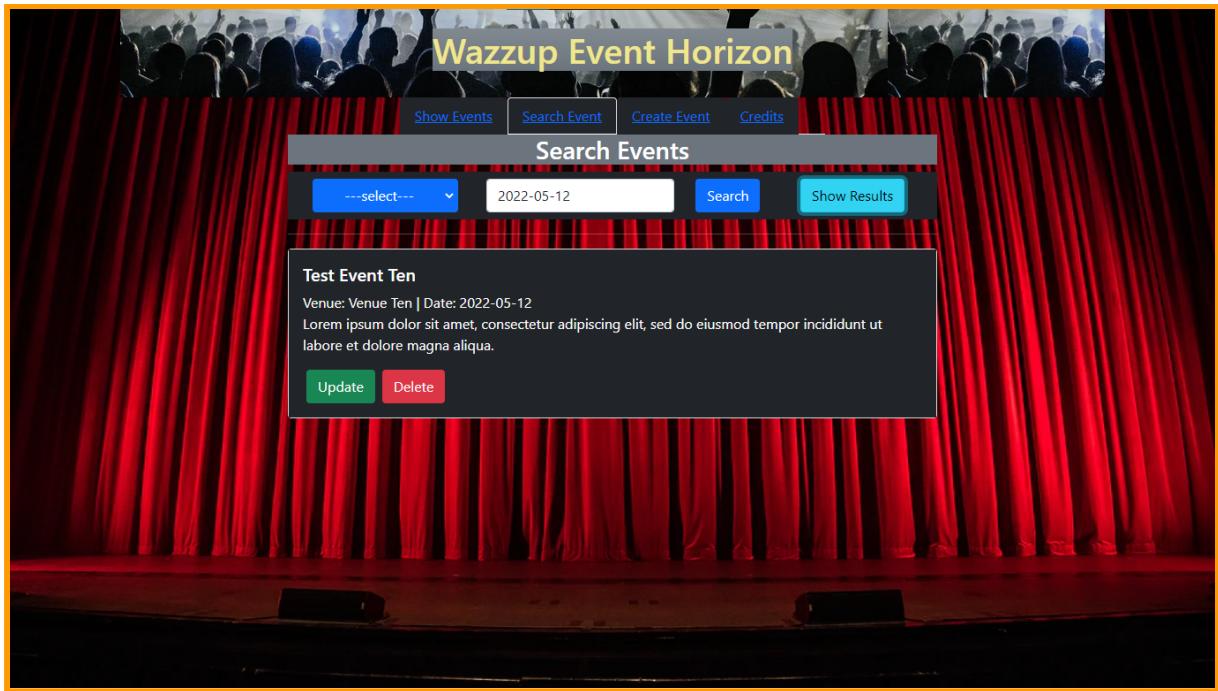
---select--- [Search](#) [Show Results](#)

Test Event Ten
Venue: Venue Ten | Date: 2022-05-12
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

[Update](#) [Delete](#)

Updated Test Event Eleven
Venue: Updated Venue Eleven | Date: 2022-05-12
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

[Update](#) [Delete](#)



```
localhost:4000/events
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[{"ename": "Test Event Five", "evenue": "Venue Five", "edate": "2022-05-17", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 5}, {"ename": "Test Event Six", "evenue": "Venue Six", "edate": "2022-05-16", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 6}, {"ename": "Test Event Seven", "evenue": "Venue Seven", "edate": "2022-05-15", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 7}, {"ename": "Test Event Eight", "evenue": "Venue Eight", "edate": "2022-05-14", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 8}, {"ename": "Test Event Nine", "evenue": "Venue Nine", "edate": "2022-05-13", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 9}, {"ename": "Test Event Ten", "evenue": "Venue Ten", "edate": "2022-05-12", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 10}]
```



The screenshot shows the Postman application interface. At the top, there's a navigation bar with 'File', 'Edit', 'View', and 'Help' options. Below the navigation is a toolbar with icons for Home, Workspaces, API Network, Reports, and Explore. A search bar says 'Search Postman'. On the right of the toolbar are 'Invite', 'Settings', 'Capture requests', and 'Upgrade' buttons.

The main workspace shows a 'Release Notes' collection with a single item: 'GET http://localhost:4000/events/10'. The status of this item is red with a 'ERR' icon. To the right of the item are 'Save' and 'Edit' buttons.

The request details panel shows a 'GET' method pointing to 'http://localhost:4000/events/10'. Below the method are tabs for 'Params', 'Authorization', 'Headers (6)', 'Body', 'Pre-request Script', 'Tests', and 'Settings'. The 'Body' tab is selected, showing options for 'none', 'form-data', 'x-www-form-urlencoded', 'raw' (which is selected), 'binary', 'GraphQL', and 'JSON'. To the right of the body options are 'Cookies' and 'Beautify' buttons.

The request body field contains the number '1'.

At the bottom, there are tabs for 'Body', 'Cookies', 'Headers (13)', and 'Test Results'. The 'Body' tab is selected. On the right, it shows the response status as 'Status: 200 OK', time as 'Time: 31 ms', size as 'Size: 634 B', and a 'Save Response' button. Below the status are buttons for 'Pretty', 'Raw', 'Preview', 'Visualize', and 'JSON' (which is selected). The JSON response body is displayed as:

```
1
2   "ename": "Test Event Ten",
3   "evenue": "Venue Ten",
4   "edate": "2022-05-12",
5   "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.",
6   "id": 10
```

Postman

File Edit View Help

Home Workspaces API Network Reports Explore Search Postman

PUT http://localhost:4000/events/10 + `Release Notes`

No Environment

http://localhost:4000/events/10

PUT http://localhost:4000/events/10

Params Authorization Headers (8) Body Pre-request Script Tests Settings

Body (1) none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 [raw]
2 {
3     "ename": "Updated Event Ten",
4     "evenue": "Updated Venue Ten",
5     "edate": "2022-05-12",
6     "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.",
7     "id": 10
}
```

Send Cookies Beautify

Body Cookies Headers (13) Test Results Status: 200 OK Time: 47 ms Size: 645 B Save Response

Pretty Raw Preview Visualize JSON

```
1 [raw]
2 {
3     "ename": "Updated Event Ten",
4     "evenue": "Updated Venue Ten",
5     "edate": "2022-05-12",
6     "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.",
7     "id": 10
}
```

Find and Replace Console Cookies Capture requests Bootcamp Runner Trash

This screenshot shows the Postman application interface. A PUT request is being made to the endpoint `http://localhost:4000/events/10`. The request body is a JSON object containing updated event details. The response status is 200 OK, indicating the update was successful.

Postman

File Edit View Help

Home Workspaces API Network Reports Explore Search Postman

DEL http://localhost:4000/events/10 + `Release Notes`

No Environment

http://localhost:4000/events/10

DELETE http://localhost:4000/events/10

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body (1) none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1
```

Send Cookies Beautify

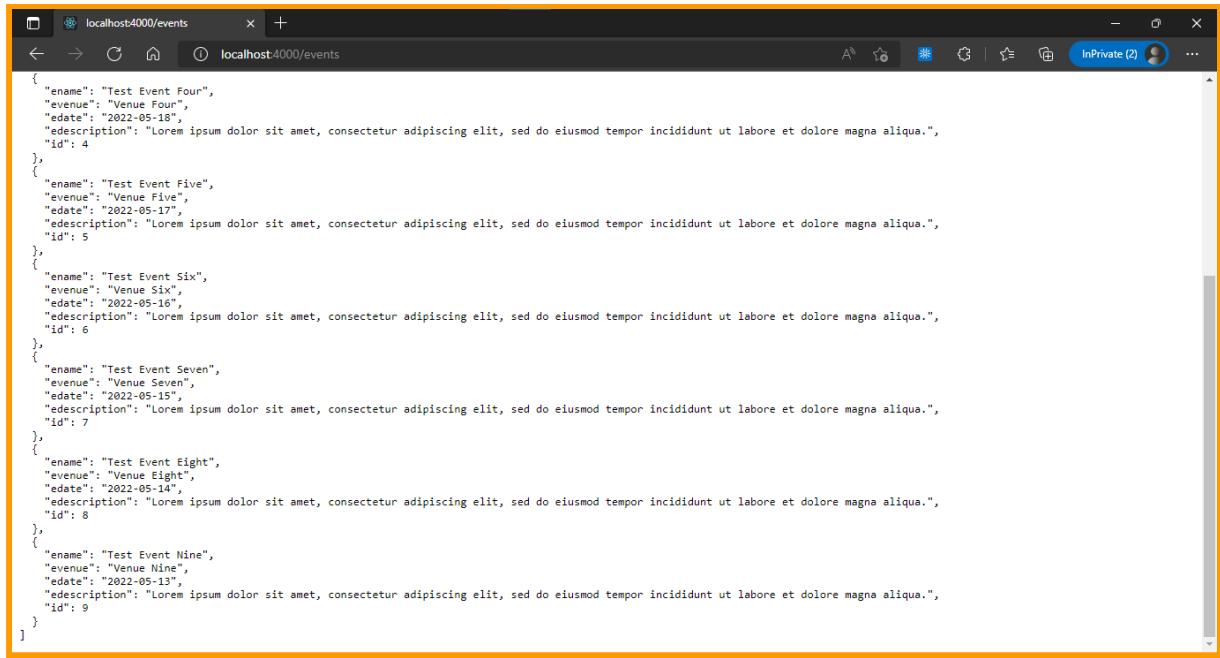
Body Cookies Headers (13) Test Results Status: 200 OK Time: 32 ms Size: 645 B Save Response

Pretty Raw Preview Visualize JSON

```
1 [raw]
2 {
3     "ename": "Updated Event Ten",
4     "evenue": "Updated Venue Ten",
5     "edate": "2022-05-12",
6     "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.",
7     "id": 10
}
```

Find and Replace Console Cookies Capture requests Bootcamp Runner Trash

This screenshot shows the Postman application interface. A DELETE request is being made to the endpoint `http://localhost:4000/events/10`. The response status is 200 OK, indicating the deletion was successful.



A screenshot of a Microsoft Edge browser window titled "localhost4000/events". The page displays a JSON array of nine event objects. Each object has four properties: "ename", "evenue", "edate", and "edescription". The "id" property is also present in each object. The events are listed as follows:

```
[{"ename": "Test Event Four", "evenue": "Venue Four", "edate": "2022-05-18", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 4}, {"ename": "Test Event Five", "evenue": "Venue Five", "edate": "2022-05-17", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 5}, {"ename": "Test Event Six", "evenue": "Venue Six", "edate": "2022-05-16", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 6}, {"ename": "Test Event Seven", "evenue": "Venue Seven", "edate": "2022-05-15", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 7}, {"ename": "Test Event Eight", "evenue": "Venue Eight", "edate": "2022-05-14", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 8}, {"ename": "Test Event Nine", "evenue": "Venue Nine", "edate": "2022-05-13", "edescription": "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.", "id": 9}]
```

X — — — END OF PROJECT — — — X