Project: FindMyEvents.com

Developer: Siddharth Basu

- Project details:

FindMyEvents is aiming to digitise a product which is an online system capable of performing operations such as managing events for example adding, deleting, updating, retrieving, sorting on various conditions etc. The admin of the site can also define and redefine the events in the system. The admin requires a login username and password for performing all these activities. The admin can logout as well.

**Currently the system performs admin specific functionalities (as mentioned in the problem statement). Only the home page is visible for a non admin. To access the events you must click events on the top navbar.

**All the functionalities have the prerequisite that an admin MUST first log in ("/login").

- Github Link:

https://github.com/siddharth-basu98/EventFinder.com

- Admin username and password (to be entered on the login page)

```
{
         "username":"admin"
         "password":"admin"
}
```

 Initial Data Entered via an "localhost:4000/init" API Endpoint triggered after clicking the Load Initial data on the navbar of the app.

How to run the app

Step 1:

If using HTTPS, run the following command on the terminal to clone the Event Finder App made with React and Express, https://github.com/siddharth-basu98/EventFinder.com.git, otherwise if using SSH, git@github.com:siddharth-basu98/EventFinder.com.git

Step 2: (Activating Express APIs and MondoDB database)

Using any IDE of choice, open the cloned project in the workspace. MongoDB needs to be installed for the user and it is from where the backend is connected and the APIs manipulate. After doing that run "cd BackEnd_Express_Mongo_server" and run "npm install" and then "npm start". This starts the backend server which starts listening to port 4000 where the react app sends its request to.

```
TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

siddharth@Siddharths-MacBook-Air

> first-node-app@1.0.0 start /Users/siddharth/Desktop/EventFinder/BackEnd_Express_Mongo_server

> nodemon server.js

[nodemon] 2.0.0
[nodemon] watching dir(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] watching extensions: js,mjs,json
[nodemon] starting 'node server.js'

(node:33759) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version.
cover and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
Server started on: 4000
(node:33759) DeprecationWarning: collection.ensureIndex is deprecated. Use <a href="mailto:createIndexes">createIndexes</a> instead.
Successfully connected to the database
```

Step 3: (Starting the React Server)

On the root directory of the application, just run the command "**npm install**" and then"**npm start**", it automatically starts the react development server on port 3000 which is default.

```
TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

siddharth@Siddharths-MacBook-Air

> login-app-reactjs@0.1.0 start /Users/siddharth/Desktop/EventFinder
> set port=5000 && react-scripts start
```

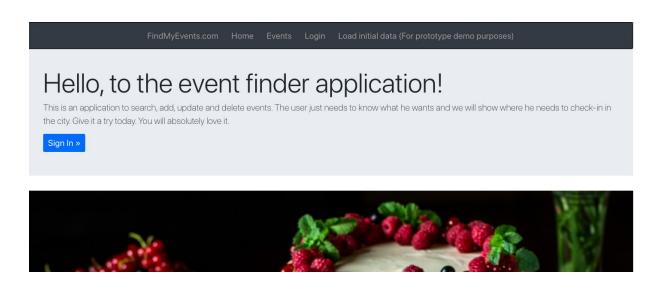
```
TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

Starting the development server...

Browserslist: caniuse-lite is outdated. Please run next command `npm update`
```

Step 4: (Load initial data)

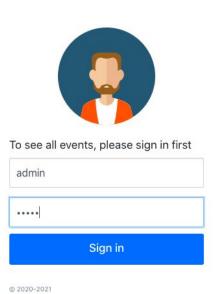
The home page is what opens upon starting the react project. On the home page **navigation** bar, there is an option to "Load initial data (For prototype demo purposes)"



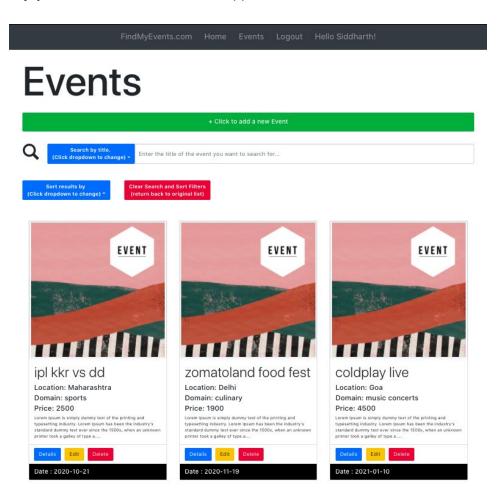
Step 5:

The app majorly as required were to perform admin related tasks, so to access the functionalities of the application it sends you to a login page when you click to access the login page, the user saved as of now is "admin" and "admin" with the name "siddharth". SO on the login page enter the following username and password,

```
{
      "username":"admin"
      "password":"admin"
}
```



Step 6: Enjoy all the functionalities of the app from here on.



Some key concepts used in the Application

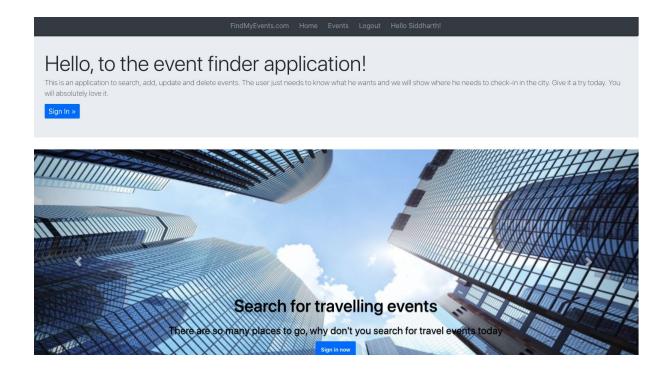
- React states and classful components
- **React Hooks** and functional components
- Express JS for API building (backend development)
- **Node**JS
- JWT authentication for Login
- React component **lifecycle methods**
- Bootstrap and CSS for styling
- **ES6** JavaScript features
- Google Maps API for showing event location map

Event Model

Title	String (Unique)
Domain	String
Price	Number
Location	String
startDate	String (input type handled via front end)
endDate	String (input type handled via front end)
photoPath	String
description	String
Organizer Name	String

Features

1) Home Page

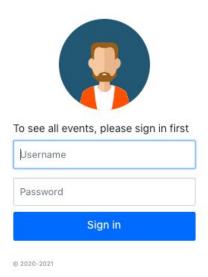


The header has a bootstrap **jumbotron** showing the name of the application and a sign in button which when clicked directly takes the user to the login page.

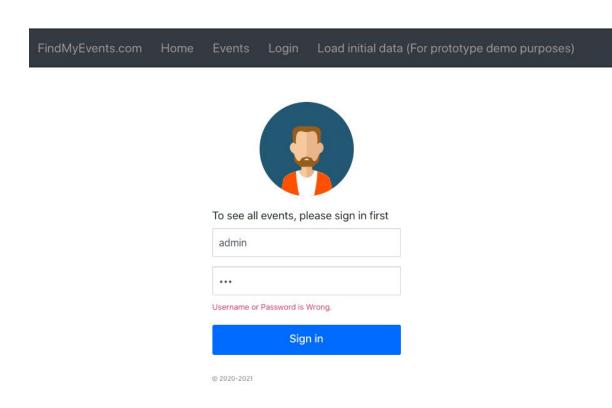
Below that there is an automatically sliding carousel showing the different types of events each again having a "sign in now" button taking the user to the sign in page.

2) Login page

This is the default login page styled using Bootstrap grid asking the user to enter the username and password. If the user tries to click Events on the navigation bar, then also if the session token is not found by the express backend, it gets automatically redirected to this login page.

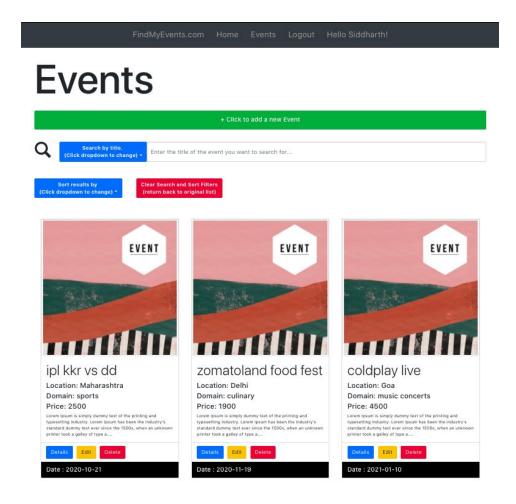


In case the **wrong ID and Password is sent,** the error message is clearly shown in the login page, and the login is unsuccessful,



Events Page

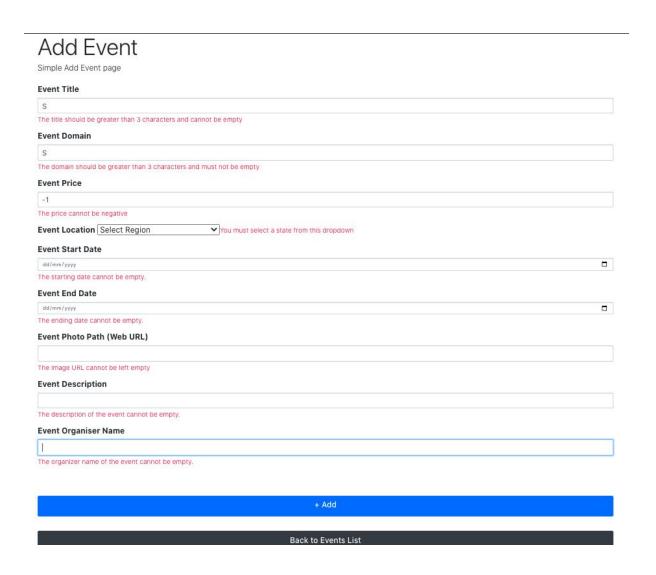
This page shows a list of all the events in the application. Notice how after logging in the Login has changed to Logout with a "Hello Siddharth" messages on the navbar which it takes using the **sessionStrorage object**.



Add Event functionality

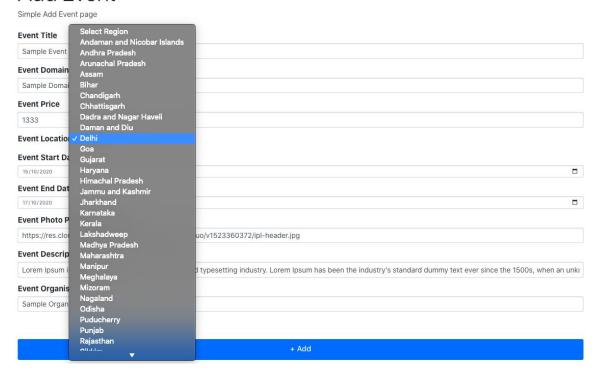
This is the sample add event form after clicking the big green button on the main events page. It takes the user to the add event page displaying this sample form to the user.

All the input fields have been validated and the error is shown in red corresponding to the field as shown in the image.

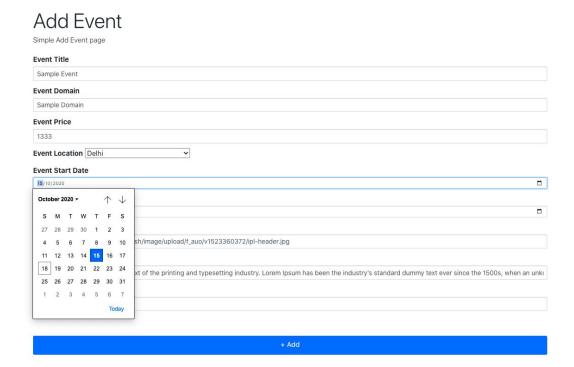


The form displays a **location selector using react location selector node module** as shown below

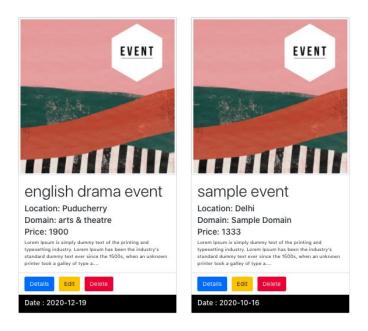
Add Event



And similarly displays a date picker calendar for the Start Date and End date fields



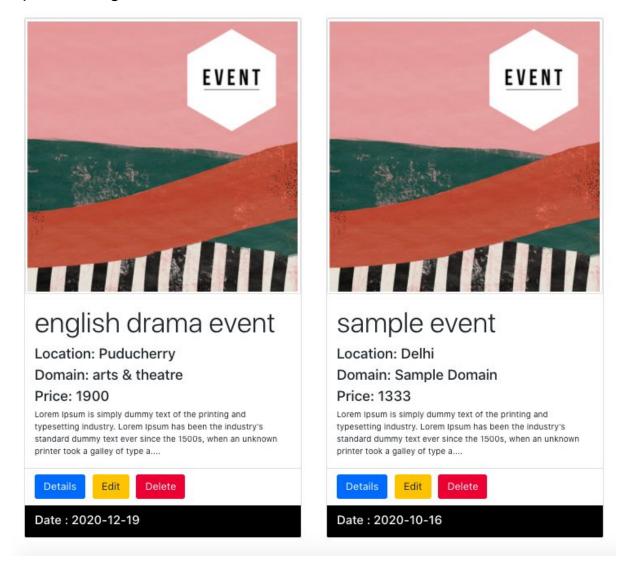




After adding the event, it is shown in the events page as shown.

Updating an event

Every event card has three options namely, details, edit and delete. Upon clicking the edit event..



Upon clicking the Edit event on the card, the event edit page is shown where a pre-populated form having the event details is displayed.

FindMyEvents.com

Update Event

Simple Add Event page

Event Title	
sample event	
Event Domain	
Sample Domain	
Event Price	
1333	
Event Location Delhi	▼
Event Start Date	
16/10/2020	D
Event End Date	
16/10/2020	D
Event Photo Path (Web URL)	
https://res.cloudinary.com/purnesh/image/uplo	oad/f_auo/v1523360372/ipl-hea
Event Description	
Lorem Ipsum is simply dummy text of the print	ing and typesetting industry. Lo
Event Organiser Name	
Sample Organisation	
+ Update	
Back to events I	iet

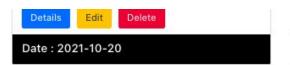
There are again form validations done on the edit events page, and no field can be an invalid one.

Update Event

Simple Add Event page

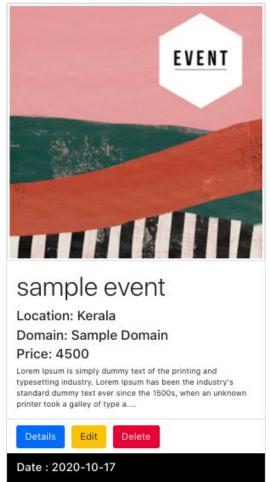
Event Title	
sample event	
Event Domain	
Sample Domain	
Event Price	
The price cannot be null and must be a number	
Event Location Kerala	
Event Start Date	
17/10/2020	Ö
Event End Date	
17/10/2020	0
Event Photo Path (Web URL)	
https://res.cloudinary.com/purnesh/image/upload/f_auo/v152	3360372/ipl-hea
Event Description	
The description of the event cannot be empty.	
Event Organiser Name	
Sample Organisation	
Employee Strope and property of the Strong and August Strope and A	
+ Update	

Lastly, after changing the event detail to Kerala and the dates of the event and clicking the Update button, the **card gets automatically updated as shown below.**









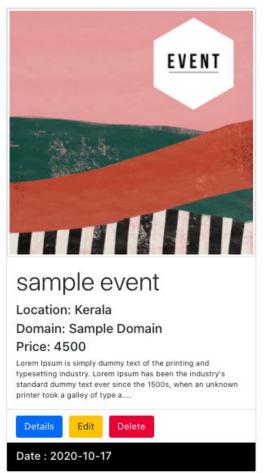
Deleting an event.

Once you click on the delete button in red either on the main page or on the event details page, the UI is updated and the event is effectively deleted from the database and won't be shown in the events page again. Example, deleting the sample event and then it doesn't show in the UI anymore.









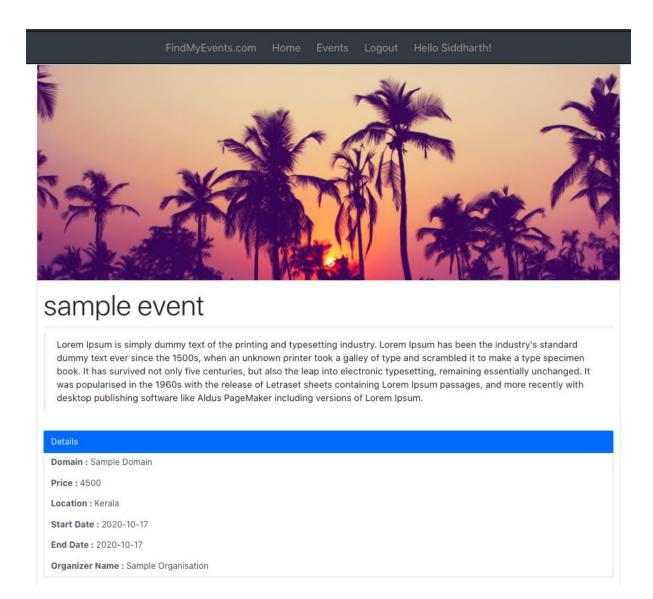
And then after clicking the delete option on "sample event", the UI gets updated and is effectively deleted. The event list is re rendered with no sample event this time.





Get Event Details Page

After clicking Details on the event card, an event detail page is shown showing all the event details. There is also a Google Maps API integration done to show the location of the event on the map inserted in the iframe on the page.



The event details page again shows all the details about the event in a card like format.

It also has the options of

- a) Edit
- b) Delete
- c) Back to events list

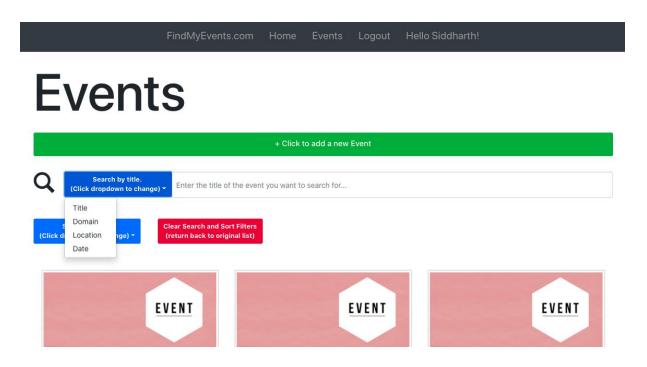
Along with this a Google Maps API integration to show the location of the event on the map dynamically as the location changes is also done inside an iframe on the details page.

desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum. Domain : Sample Domain Price: 4500 Location : Kerala Start Date: 2020-10-17 End Date: 2020-10-17 Organizer Name : Sample Organisation Edit Delete Back to Event list Nellore Jephi Chennai George Kerala Y Directio View larger map PUDUCHERRY TAMIL NADU + Sri Lanka Colombo

Searching events on the events page using a search

bar (API calls designed in Express but calling them for every dynamic entry input seemed to be a bad design practice for this basic app)

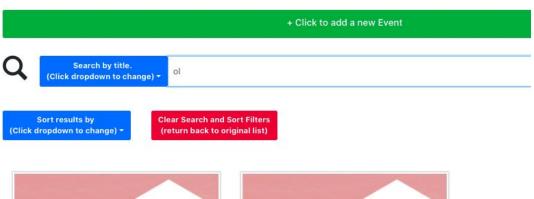
There are 4 search parameters, namely, Title, Domain, Location and Date you can search events for as shown in the image below



Search by title (default)

Upon searching by title, just typing "ol" in the search bar, all events having "ol" in their title get displayed, no need to type the event name fully. The event list which gets displayed is completely dynamic and gets updated with every keystroke on the search bar.

Events







- Search by domain

Upon searching by domain, just typing "spo" in the search bar, all events having "spo" in their domain get displayed, no need to type the event domain fully. The event list which gets displayed is completely dynamic and gets updated with every keystroke on the search bar.

Events

+ Click to add a new Event



Search by domain. (Click dropdown to change)

spo

Sort results by (Click dropdown to change)

Clear Search and Sort Filters (return back to original list)



ipl kkr vs dd

Location: Maharashtra

Domain: sports Price: 2500

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown

printer took a galley of type a....



cricket wc finals

Location: Maharashtra

Domain: sports Price: 4200

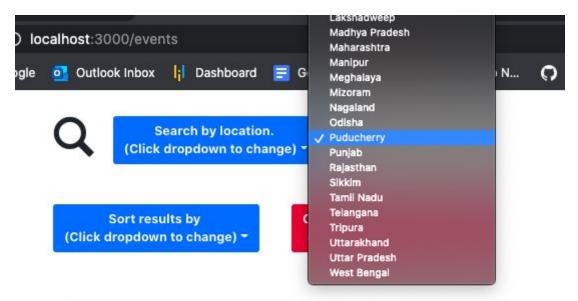
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown

printer took a galley of type a....

- Search by location

The location dropdown is shown upon clicking search by location. You can easily select the location and only events for that particular location will get displayed to the user.

Example upon searching for location "Puducherry"





english drama event

Location: Puducherry Domain: arts & theatre

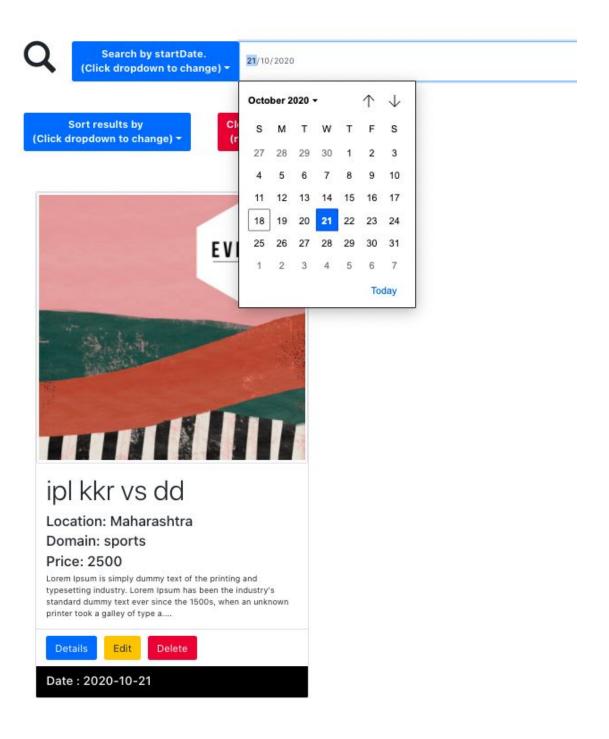
Price: 1900

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type a....

- Search by date

The date picker dropdown is shown upon clicking search by date. You can easily select the start date and only events for that particular date will get displayed to the user.

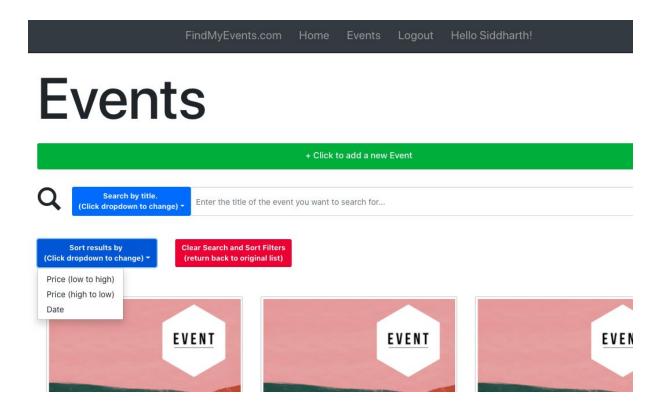
Example upon searching for the date of "21-10-2020", only one event is displayed.



Sorting functionalities on the events page:

There is a sort by button on the events page which helps in sorting the events with a parameter the user selects. Currently three functions are implemented namely,

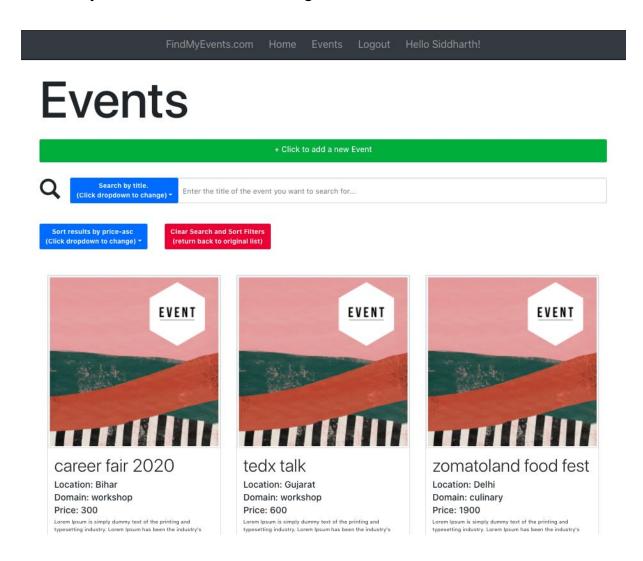
- a) Sort by Price (low to high)
- b) Sort by Price (high to low)
- c) Sort by date (near to far)



- Sort by Price (low to high)

Upon checking the sort low to high from the dropdown the current events all get sorted by price.

Here as you see events are starting from 300 to 600 to 1900...and so on.



You can also search and sort together by typing search criteria and selecting a sorting technique.

Example of searching "ol" and then checking the sort by price (low to high) option.

Events

+ Click to add a new Event

Click to add a new Event

Click dropdown to change)

Sort results by price-asc (Click dropdown to change)

Clear Search and Sort Filters (return back to original list)



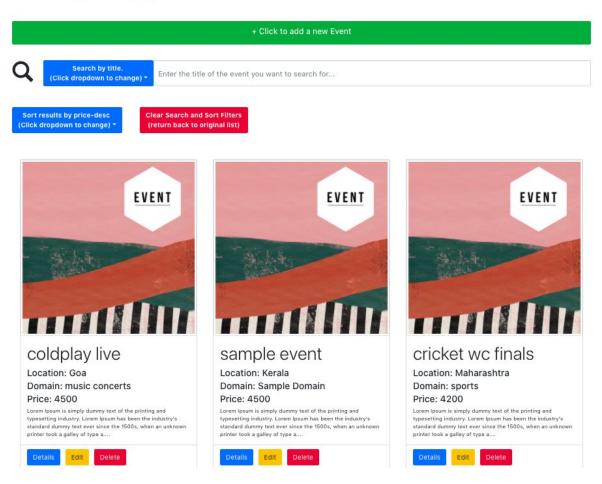


- Sort by price (high to low)

Similar to the price ascending sorting, we can also sort using the high to low option (together with the search option).

So as you see, the event prices are now in descending order of 4500, 4500, 4200 and so on...

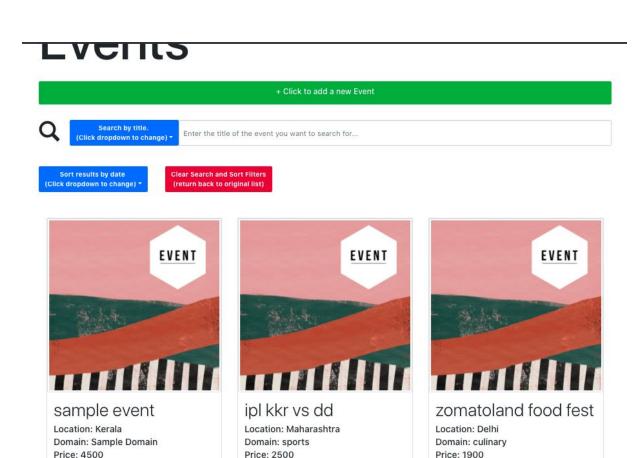
Events



Sort by date (near to far in future)

Similar to the price ascending sorting, we can also sort using the date option (together with the search option). All events are now shown in the sort by date option.

As shown in the picture, dates are at the bottom of the card in black. Dates are 17th October 2020, 21st October 2020, 19th November 2020....and so on.



Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type a....

Details Edit Delete

Date: 2020-10-21

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type a....

Details Edit Delete

Date: 2020-11-19

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type a....

Details Edit Delete

Date: 2020-10-17