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Cloud Computing Project

Online Event Organizer

Event Management

The Event Management is a small web application which will allow a closed group of users to create, edit, delete, archive and share events.

The small web application for Event management has been developed using the Django web development framework. Django is a high-level Python Web framework for web application development.

I have used Django framework version 2.2.7

Python version 3.6 has been used in this project.

Being a small web application to be used with a small group of users, SQLite Database would be a suitable for such an application which is supposed to be used with a closed group of users:

The lite in SQLite means light weight in terms of setup, database administration, and required resource.

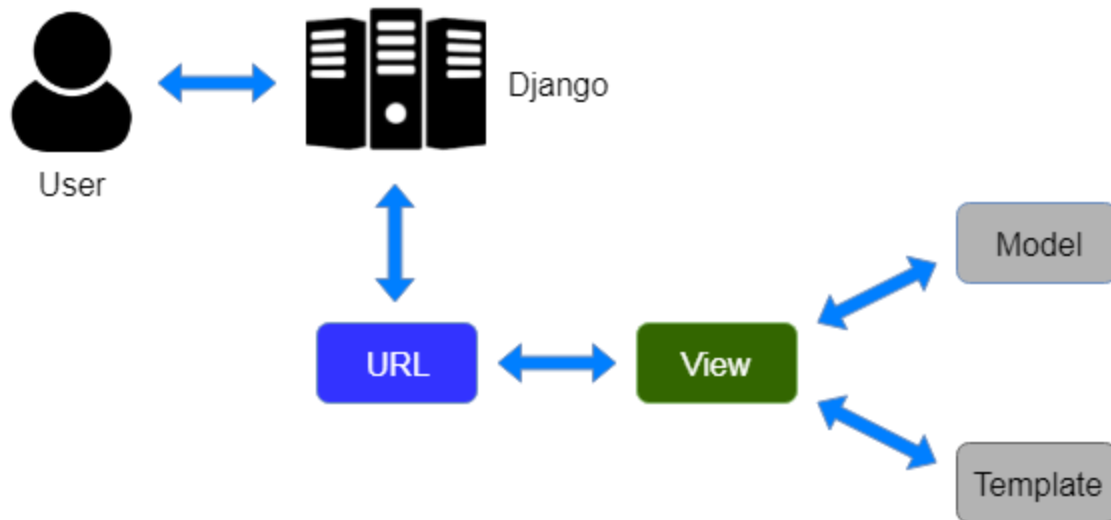
SQLite has the following noticeable features: self-contained, serverless, zero-configuration, transactional.

The web application can be deployed on an AWS EC2 instance.

The web application consists of 5 basic blocks in the event management lifecycle:

1. Create a new Event/Add a new Event.
2. Edit and delete posted event
3. Archive old events
4. Search events in the application
5. Share the event with users.

Django is a web application framework that follows the MVC-MVT pattern:



The Event Management web application has the default *event_management* app which has then plugged in with features for search and other operations like Edit/Delete/Archive/Share.

The app plugin- *event* has been written to implement the Edit, Delete, Archive and Share feature in the web application.

The app plugin- *search* has been written to implement the search functionality in the web application.

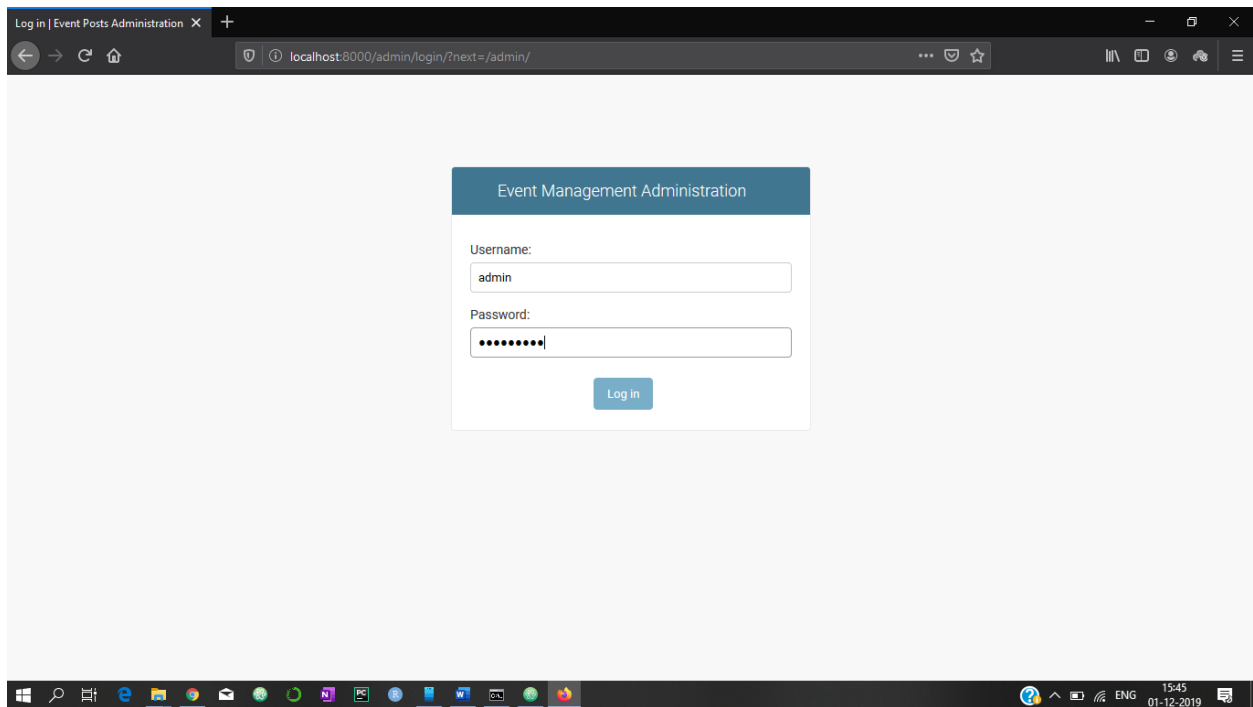
Various functions implemented in the web application has been captured in the below screenshots:

The home page for the web app when there are no events added:

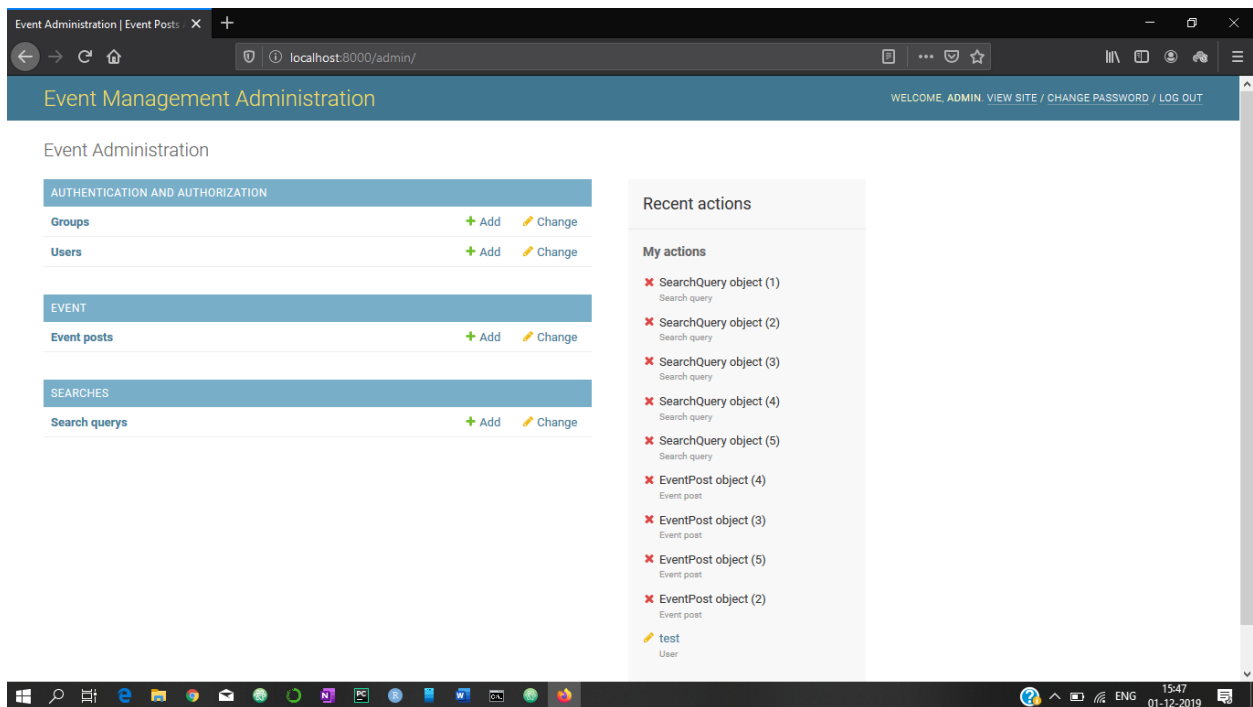


Welcome to Event Management

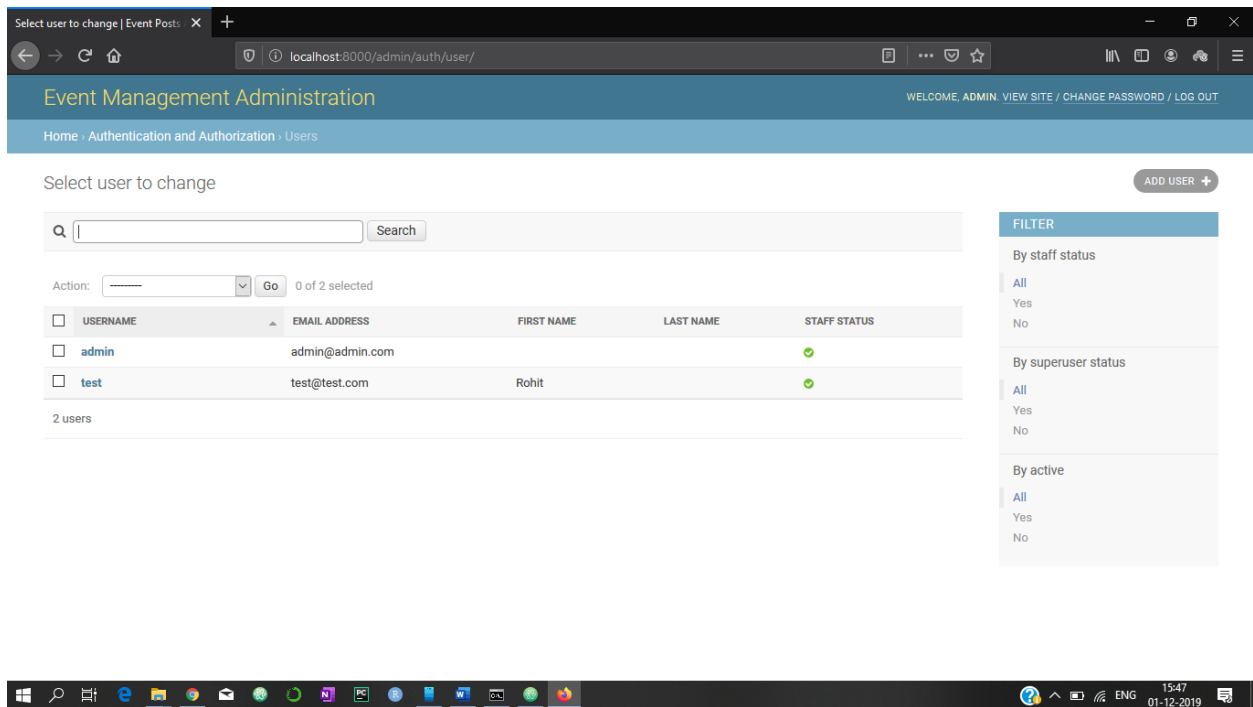
Event Management Administration panel to Create new events:



Administration Console for the web application Admin:



Authentication, Authorization for users:

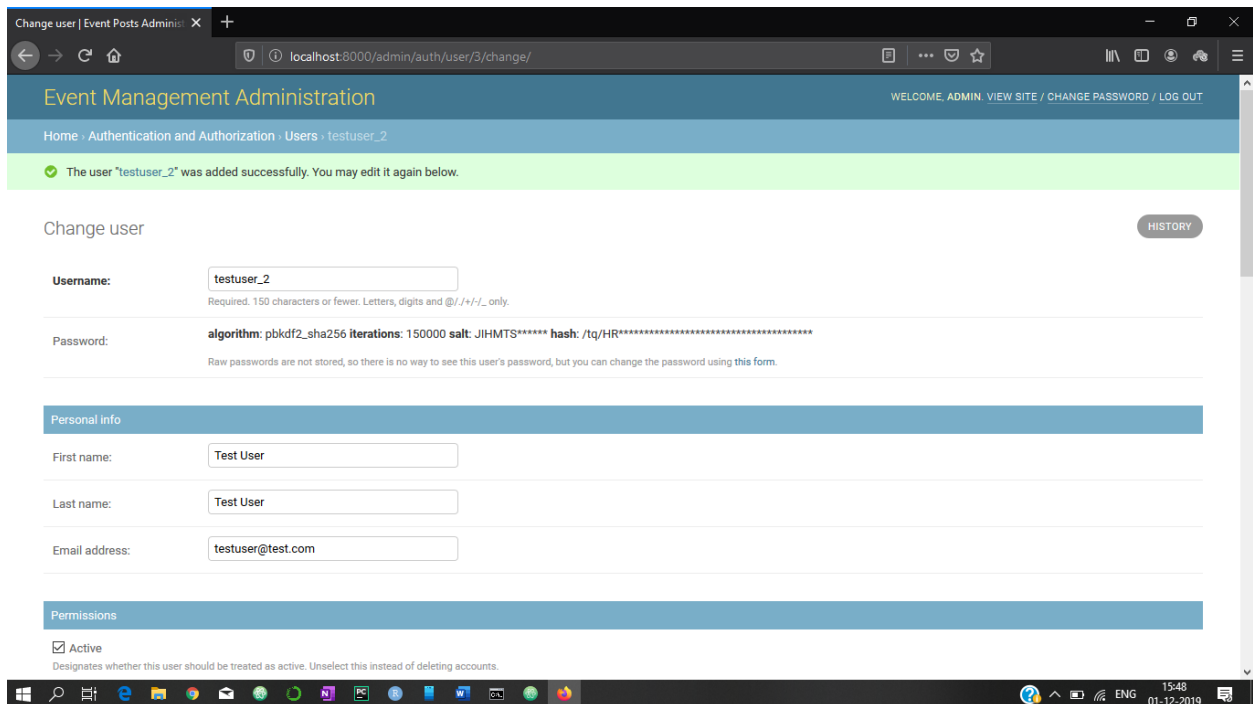


The screenshot shows a web browser window with the URL `localhost:8000/admin/auth/user/`. The page title is "Event Management Administration". The breadcrumb trail is "Home > Authentication and Authorization > Users". The main heading is "Select user to change". There is a search bar with the text "Search" and a button "Go". Below the search bar, there is a table of users:

<input type="checkbox"/>	USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
<input type="checkbox"/>	admin	admin@admin.com			✓
<input checked="" type="checkbox"/>	test	test@test.com	Rohit		✓

Below the table, it says "2 users". On the right side, there is a "FILTER" sidebar with three sections: "By staff status", "By superuser status", and "By active". Each section has radio buttons for "All", "Yes", and "No".

A new user: `testuser_2` is added in the system who has permissions to create/edit/modify/delete and share events.



The screenshot shows a web browser window with the URL `localhost:8000/admin/auth/user/3/change/`. The page title is "Event Management Administration". The breadcrumb trail is "Home > Authentication and Authorization > Users > testuser_2". A green message bar at the top says "The user 'testuser_2' was added successfully. You may edit it again below." The main heading is "Change user". There is a "HISTORY" button on the right. The form has several sections:

- Username:** `testuser_2`. Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.
- Password:** `algorithm: pbkdf2_sha256 iterations: 150000 salt: JIHMTS***** hash: /tq/HR*****`. Raw passwords are not stored, so there is no way to see this user's password, but you can change the password using [this form](#).
- Personal info:**
 - First name: `Test User`
 - Last name: `Test User`
 - Email address: `testuser@test.com`
- Permissions:**
 - ☒ Active. Designates whether this user should be treated as active. Unselect this instead of deleting accounts.

Change user | Event Posts Administ...

localhost:8000/admin/auth/user/3/change/

Last name:

test user

Email address:

testuser@test.com

Permissions

☒ Active

Designates whether this user should be treated as active. Unselect this instead of deleting accounts.

☒ Staff status

Designates whether the user can log into this admin site.

☐ Superuser status

Designates that this user has all permissions without explicitly assigning them.

Groups:

Available groups

Filter

Chosen groups

Choose all

Remove all

Change user | Event Posts Administ...

localhost:8000/admin/auth/user/3/change/

Choose all

Remove all

The groups this user belongs to. A user will get all permissions granted to each of their groups. Hold down "Control", or "Command" on a Mac, to select more than one.

User permissions:

Available user permissions

Filter

admin | log entry | Can add log entry

admin | log entry | Can change log entry

admin | log entry | Can delete log entry

admin | log entry | Can view log entry

auth | group | Can add group

auth | group | Can change group

auth | group | Can delete group

auth | group | Can view group

auth | permission | Can add permission

auth | permission | Can change permission

auth | permission | Can delete permission

auth | permission | Can view permission

auth | user | Can add user

auth | user | Can change user

auth | user | Can delete user

Chosen user permissions

searches | search query | Can add search query

sessions | session | Can add session

event | event post | Can add event post

event | event post | Can change event post

event | event post | Can delete event post

event | event post | Can view event post

Choose all

Remove all

Specific permissions for this user. Hold down "Control", or "Command" on a Mac, to select more than one.

Important dates

Select user to change | Event Posts

localhost:8000/admin/auth/user/

Event Management Administration

WELCOME, ADMIN VIEW SITE / CHANGE PASSWORD / LOG OUT

Home > Authentication and Authorization > Users

✓ The user "testuser_2" was changed successfully.

Select user to change

ADD USER +

Q | Search

Action: [] Go 0 of 3 selected

<input type="checkbox"/>	USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
<input type="checkbox"/>	admin	admin@admin.com			✓
<input type="checkbox"/>	test	test@test.com	Rohit		✓
<input type="checkbox"/>	testuser_2	testuser@test.com	Test User	Test User	✓

3 users

FILTER

By staff status

All
Yes
No

By superuser status

All
Yes
No

By active

All
Yes
No

Windows taskbar: 15:49 01-12-2019

Event Added from the Event section in the web application:

Select event post to change | Event

localhost:8000/admin/event/eventpost/

Event Management Administration

WELCOME, ADMIN VIEW SITE / CHANGE PASSWORD / LOG OUT

Home > Event > Event posts

Select event post to change

ADD EVENT POST +

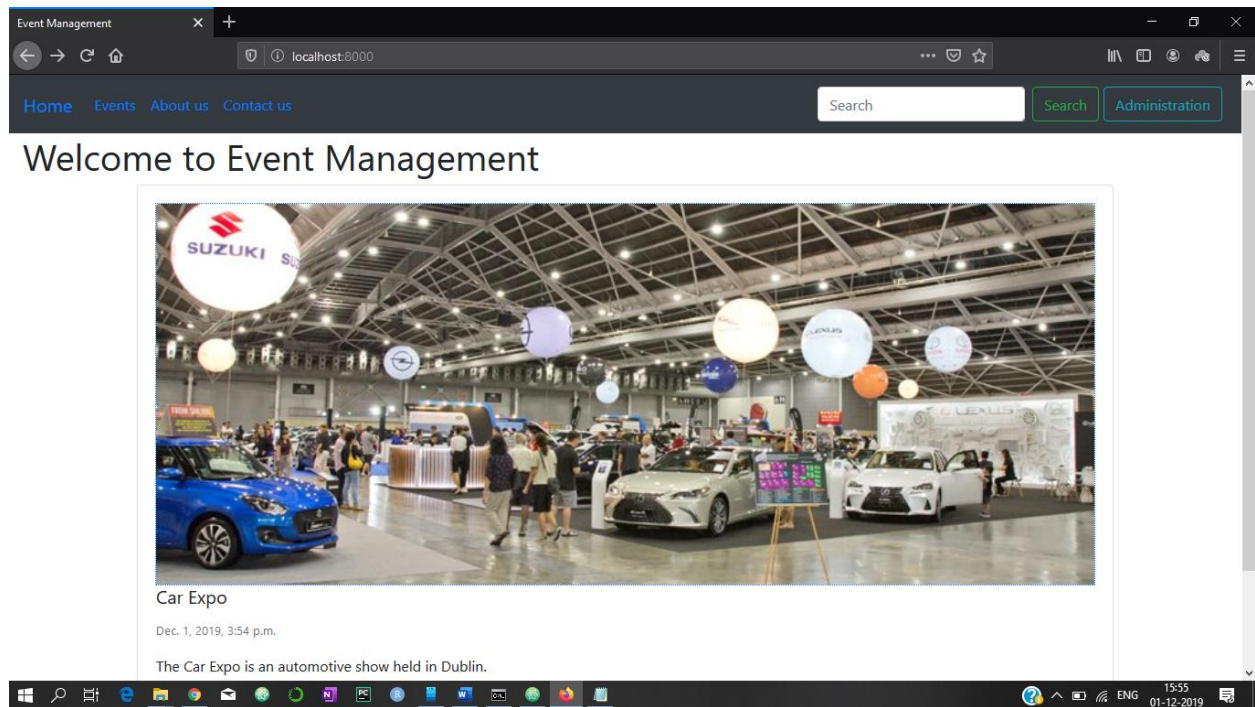
Action: [] Go 0 of 1 selected

<input type="checkbox"/>	EVENT POST
<input type="checkbox"/>	EventPost object (6)

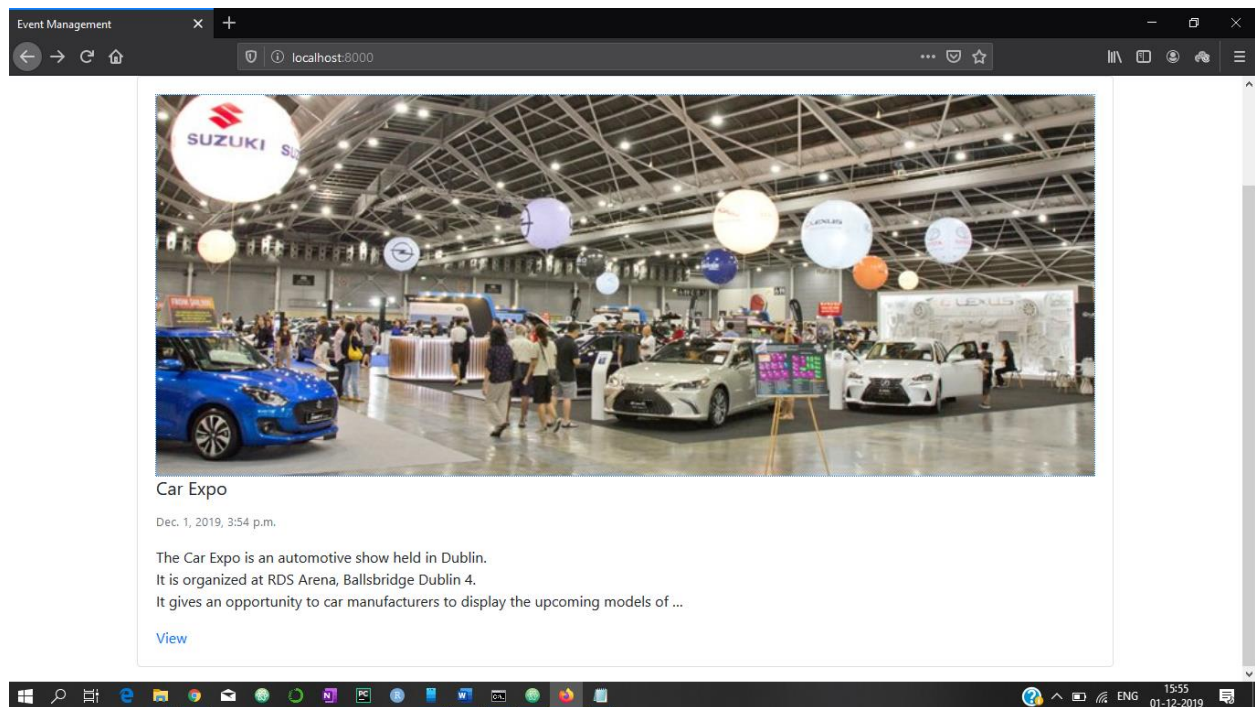
1 event post

Windows taskbar: 15:55 01-12-2019

Site home page after adding the event:



Detailed view of the web application:



Features to Edit/Delete/Archive/Share when opened the detail view of the event:

The screenshot shows a web browser window with the address bar displaying 'localhost:8000/event/expo/'. The page features a large image of a car exhibition with various cars and people. Below the image, the event title 'Car Expo' is displayed, followed by the date and time 'Dec. 1, 2019, 3:54 p.m.'. A description follows: 'The Car Expo is an automotive show held in Dublin. It is organized at RDS Arena, Ballsbridge Dublin 4. It gives an opportunity to car manufacturers to display the upcoming models of various vehicles.' A 'View' link is present. At the bottom of the page, there are four buttons: 'Edit' (blue), 'Delete' (red), 'Archive' (yellow), and 'Share' (blue). The Windows taskbar at the bottom shows the time as 15:55 on 01-12-2019.

The screenshot shows the 'Event Management Administration' interface. The header includes the title 'Event Management Administration' and a welcome message 'WELCOME, TEST USER. VIEW SITE / CHANGE PASSWORD / LOG OUT'. The main content area is divided into two sections. On the left, under 'Event Administration', there are two sections: 'EVENT' with a sub-section 'Event posts' and buttons '+ Add' and 'Change', and 'SEARCHES' with a sub-section 'Search queries' and a '+ Add' button. On the right, there is a 'Recent actions' section with a sub-section 'My actions' and the text 'None available'. The Windows taskbar at the bottom shows the time as 16:04 on 01-12-2019.

Edit Event:

Update Car Expo

Title:

Image: Currently: [image/car_expo.jpg](#)

Change: No file chosen

Slug:

Content:

The Car Expo is an automotive show held in Dublin.
It is organized at UCD Dublin 4.
It gives an opportunity to car manufacturers to display the upcoming models of various vehicles.

Publish date:

Search for Event:

Update Car Expo

Title:

Image: Currently: [image/car_expo.jpg](#)

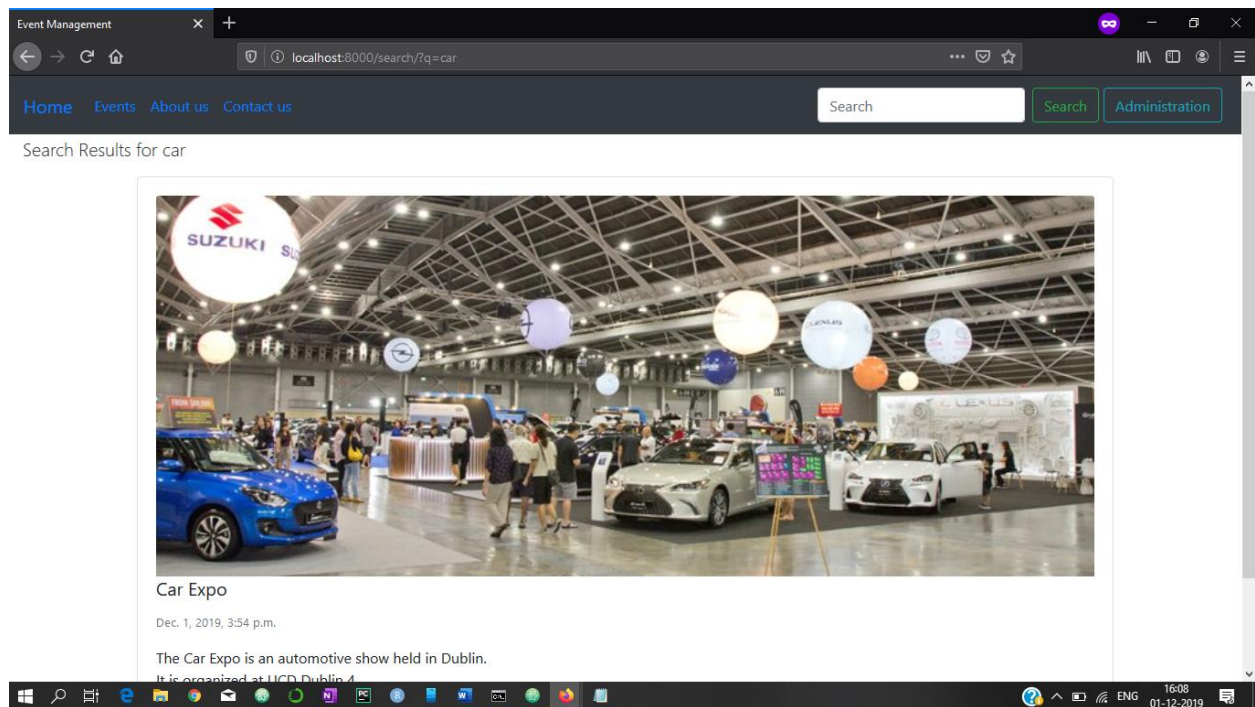
Change: No file chosen

Slug:

Content:

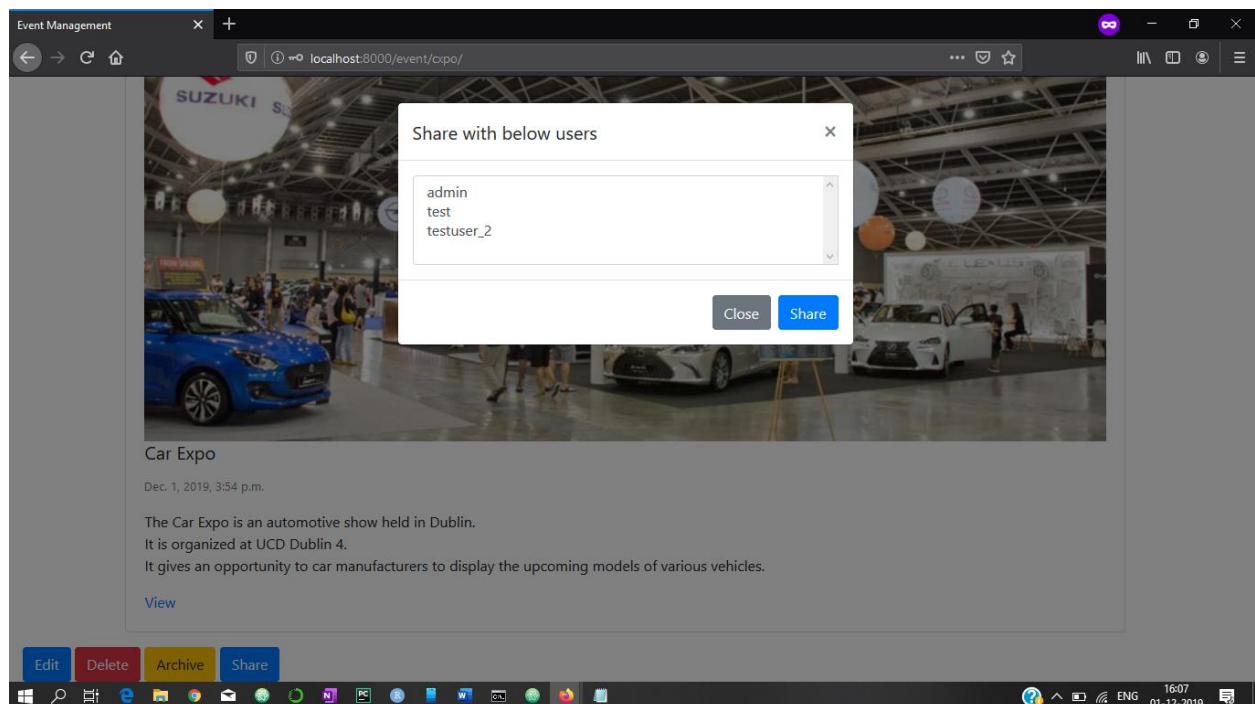
The Car Expo is an automotive show held in Dublin.
It is organized at UCD Dublin 4.
It gives an opportunity to car manufacturers to display the upcoming models of various vehicles.

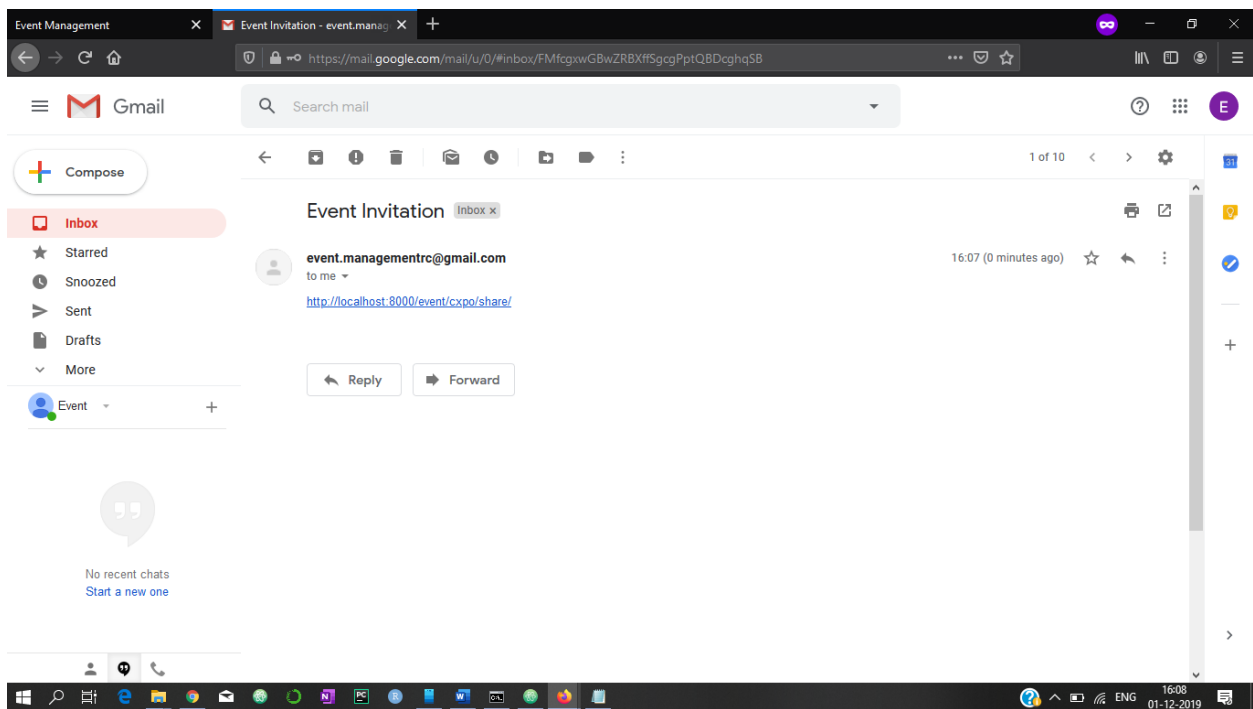
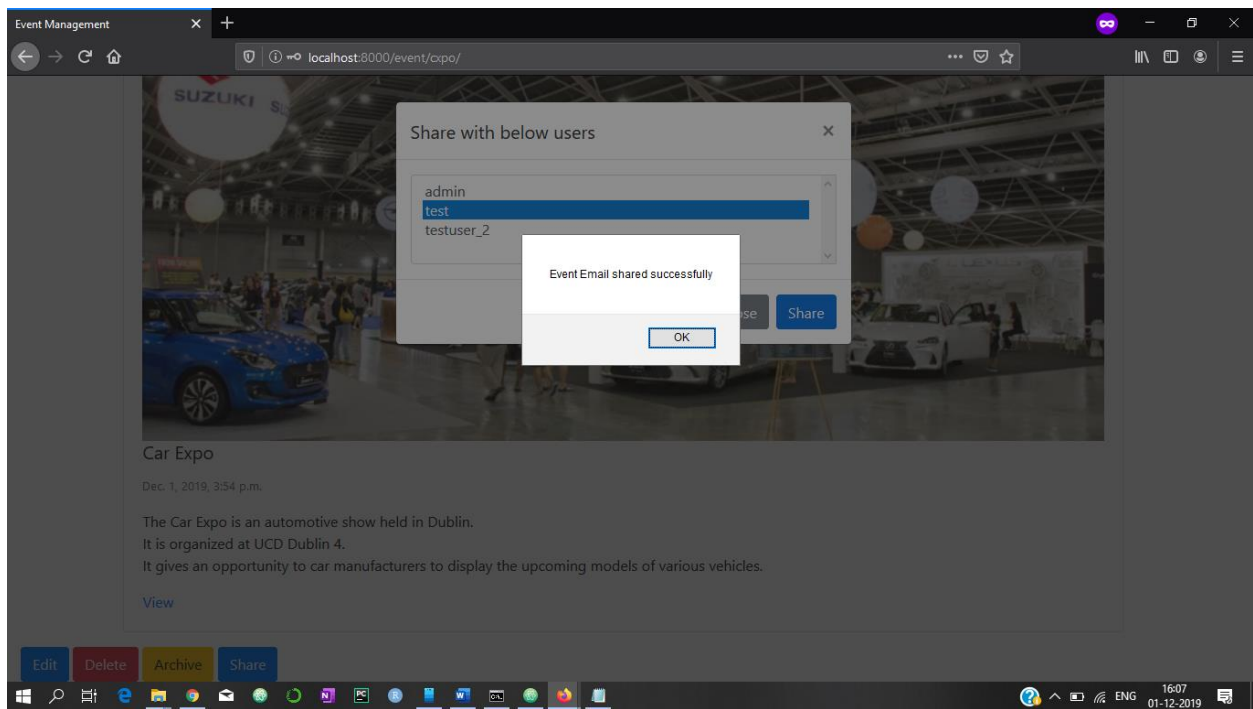
Publish date:



Archived Events are present in the database, its just that they are not shared with the user on the display page.

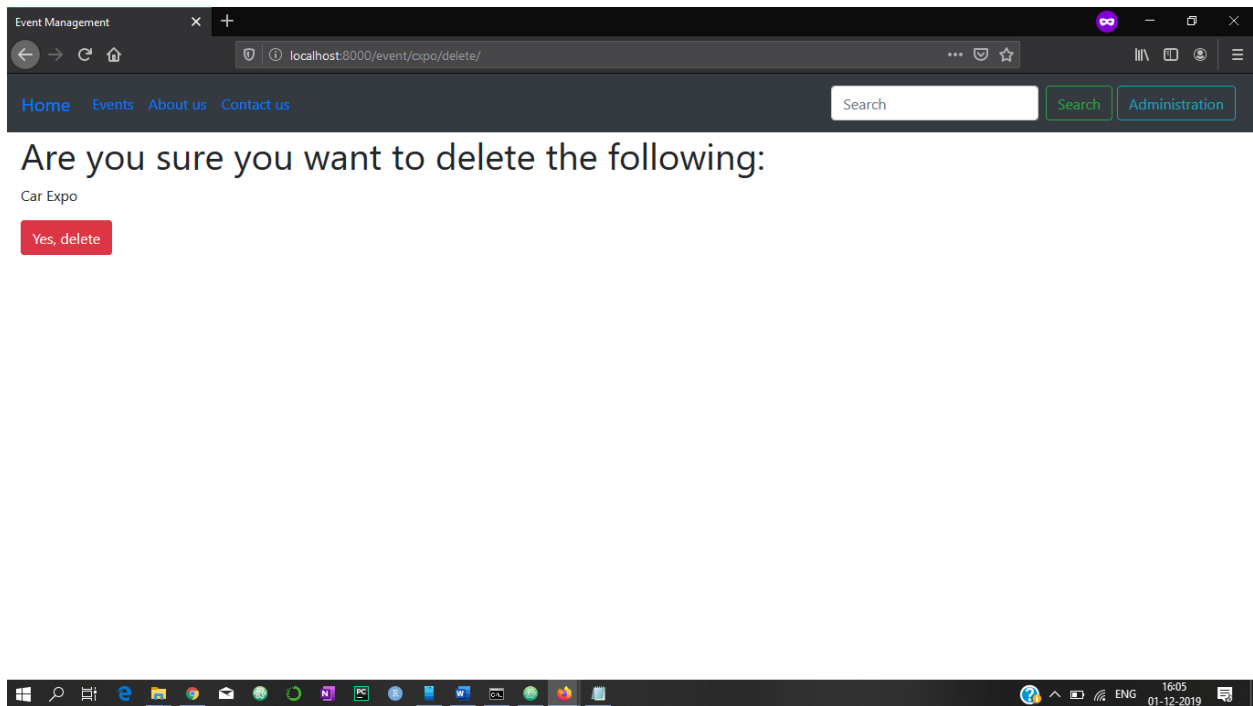
Share Event:



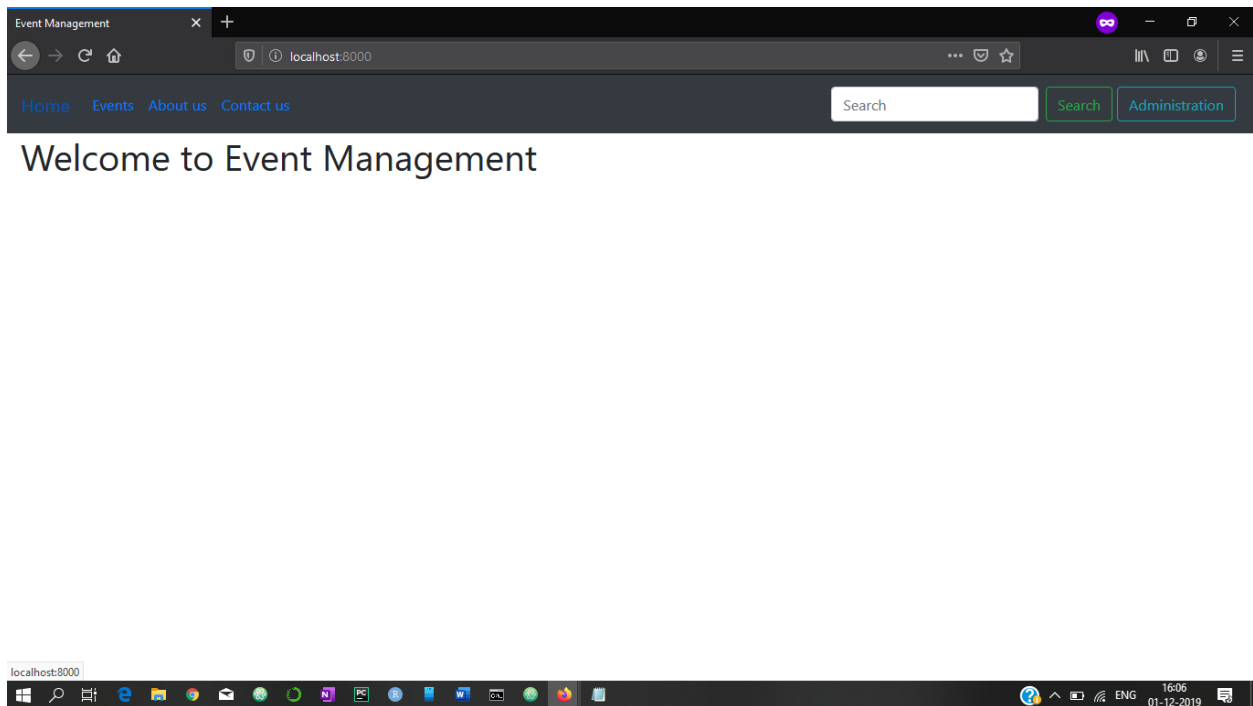


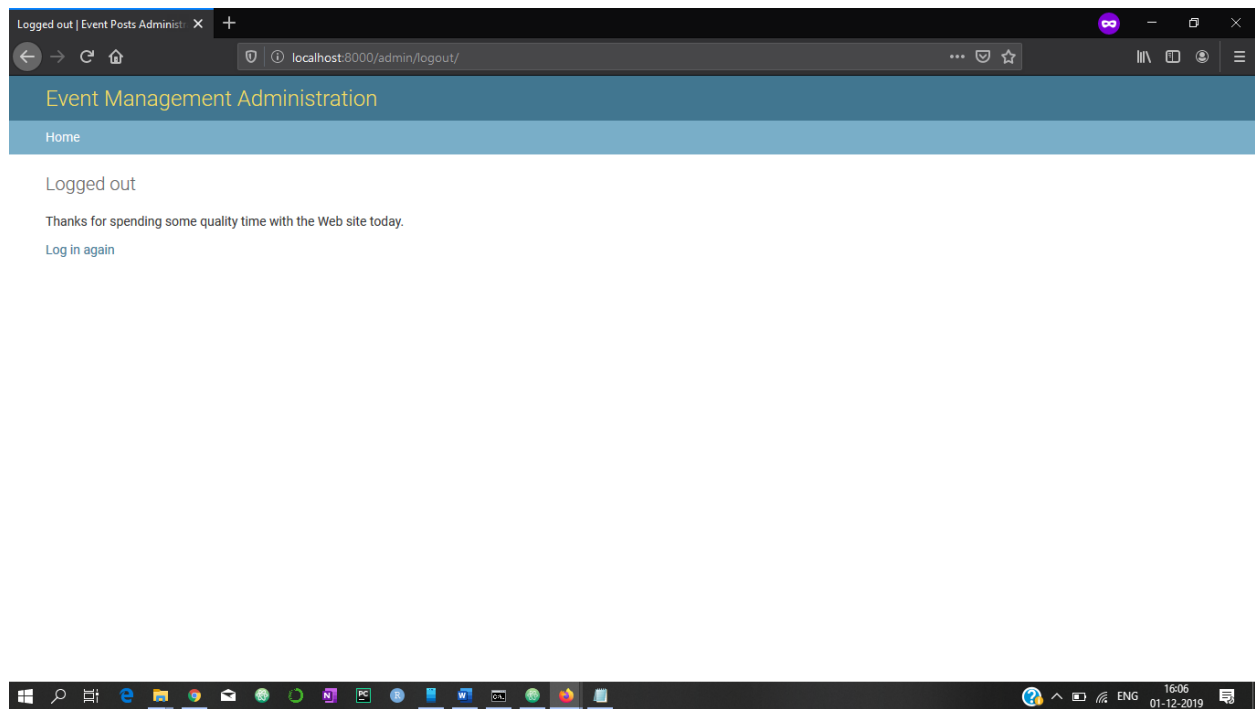
I have used the default, dummy Google account for sending and receiving the email on the same. However, we can share the event by email with whatever user we want, which will need some small modifications in the existing working of this feature.

Delete Event:



Home Page after deletion of the event:





List of multiple events:

