Online Event Organizer

Summary:

Features:

Online Event Organizer is an event management web application that allows users to create new events, edit or delete active events and search for events.
The application allows users to share events between a closed group of users.
The application also performs the basic functionality of creating user through sign up and authorizing user through login.
It allows users to register for an event. A user can also unregister himself from an event.

Technologies Used:

Front End- HTML, Javascript, CSS, Bootstrap

Backend- Spring-boot, Java, JDBC connector, Apache DBCP for Connection Pooling

Database- RDS

Cloud- RDS, Elastic Beanstalk, S3 bucket, EC2 Instance, Elastic IP Address, Security Group

Deployment on Cloud:

I have used AWS to deploy the application.
The web application developed in java is packaged into a jar file and deployed on the cloud using **Elastic Beanstalk**. An instance of **RDS** is used for creating the database required by the application. The application gets deployed in the **S3 bucket** and an **EC2 instance** runs the application. The **elastic IP address** created by beanstalk is used to access the web application. A **security group** is created by beanstalk to restrict access to the RDS instance.
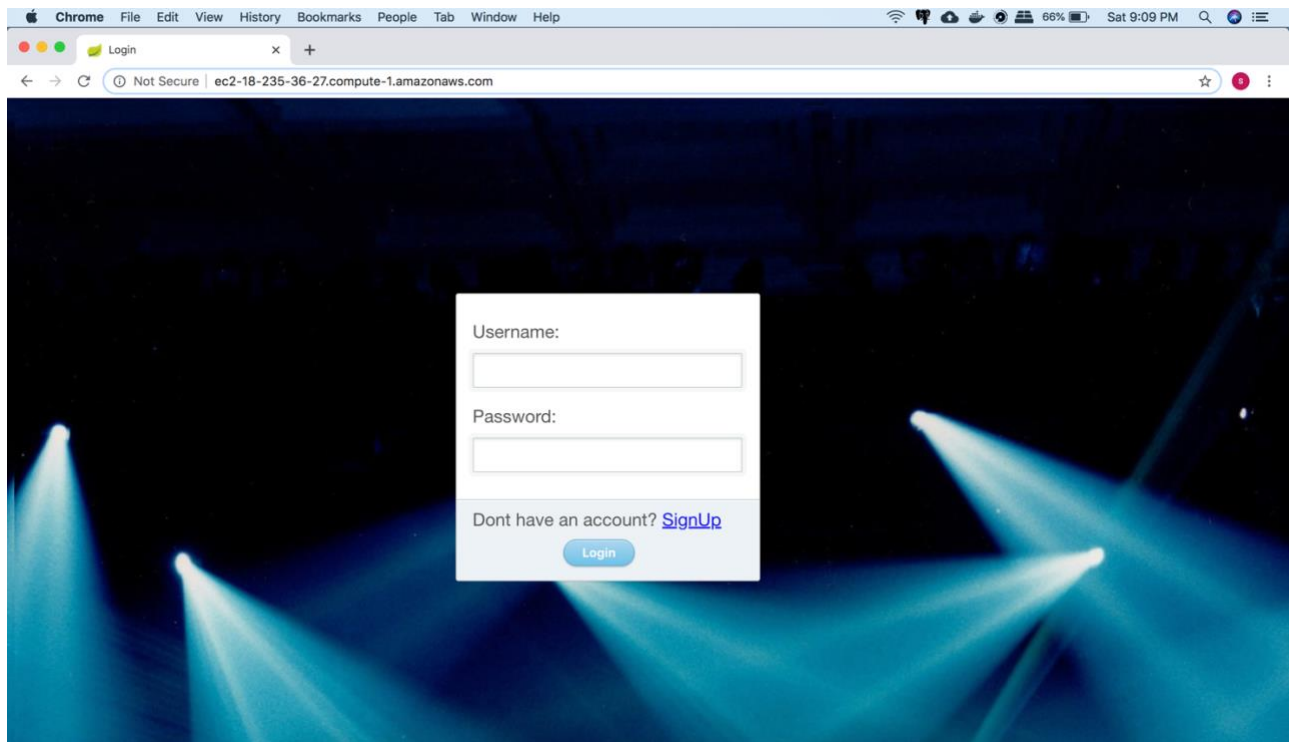
URL of the Application:

http://eventmanagement-env-1.kdqncjuwsr.us-east-1.elasticbeanstalk.com/

<u>Features:</u>

Following are the features provided by the web application:

1. Login:
   An existing user may login into the web application using his/her credentials. The application verifies the username and password from those stored in the database and if the credentials are valid, the user is logged into the system. If not, a "Wrong Username/Password" error message is displayed.

2. Signup:
   If a user is a new user, he can sign up before proceeding to logging into the application. The signup link on the login page navigates him to the signup page. The user needs to enter details such as
   - username for the application
   - name of the user
   - email of the user
   - user profile – describing the user for example: event organizer, participant etc.
   - password for the application

   After filling in all the details and clicking the sign-up button, the details get stored in the RDS database. The user can now proceed to logging into the system.
   Note: The sign-up page validates the input values entered by the user.

3. Homepage (Edit, Delete, Share):
   Once the user logs in, the user is navigated to the homepage. The homepage displays the user details under the user profile section. The events for which the user has registered are listed under the Events Registered section. The user can unregister these events if he decides not to go to the event.
   The events hosted by the user are displayed under the Events Hosted section on the homepage. The user has the option to edit the event, delete the event or share the event with other users.

   Note: The user can edit, delete, share only active events (Future Events).

The user can navigate from the homepage to the following pages:

Events- Displays all the events shared with the current user and the events hosted by the user.

Create Event- Allows user to create a new event.

Share Event- Allows the user to share an event with one or more users.

Archived Events- Displays the events archived by the user.

Logout- Logs the user out of the system and navigates him to the login screen.

4. Edit Event:
   If the user clicks on the edit button, the Edit Event page is displayed. The event details are populated, and the user is allowed to **edit the event** details. Once the user completes editing, the user can click on edit button and the details are updated in the database. So, all users with whom the event has been shared will now see the updated event details.
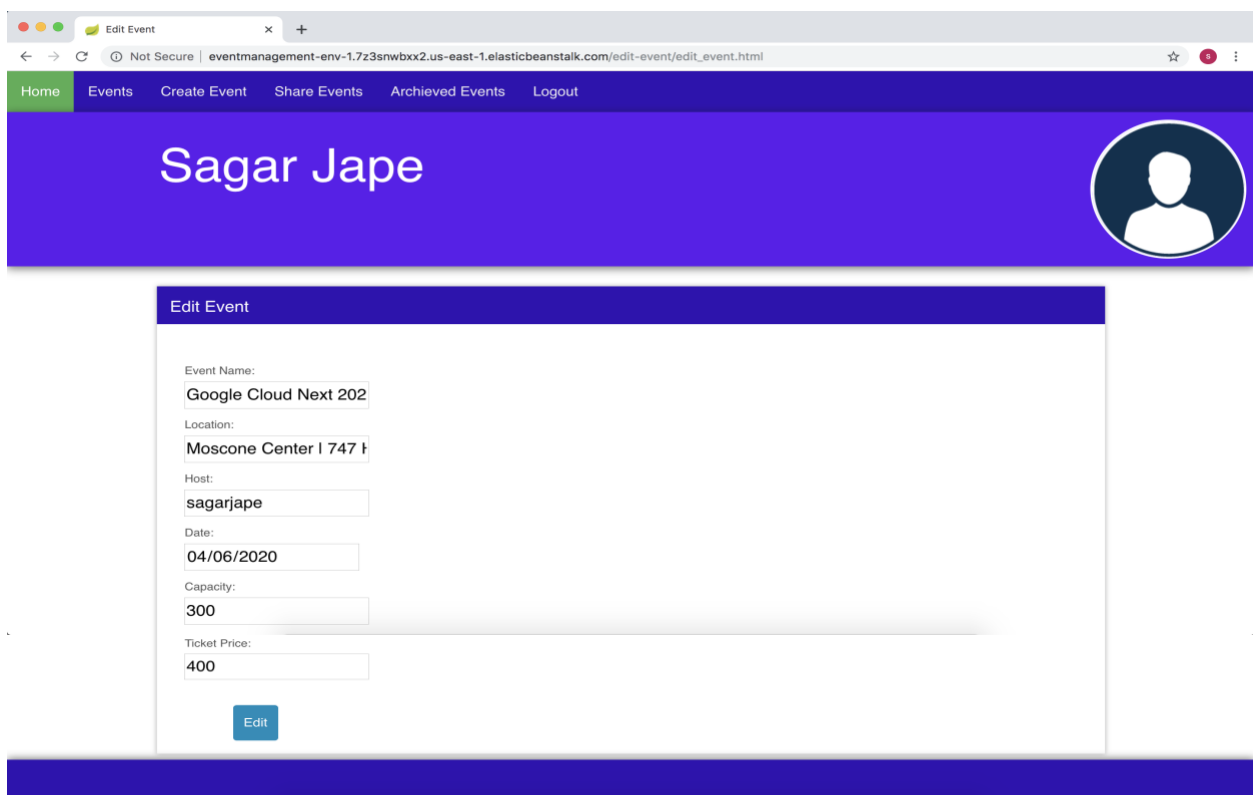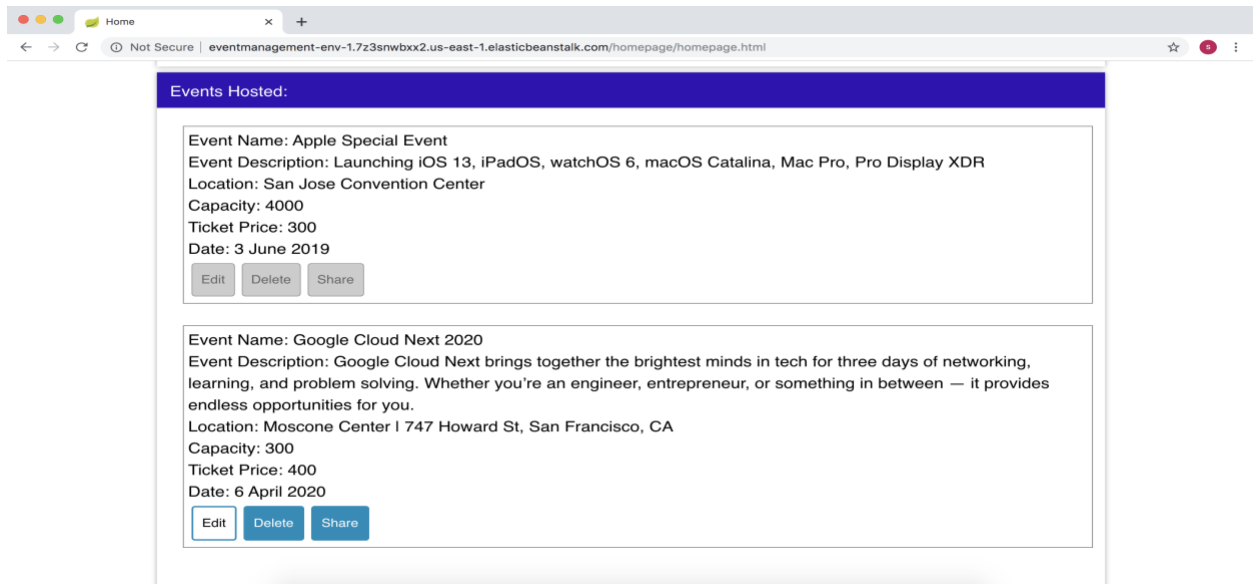
5. Delete Event:
   From the homepage, the user can **delete an event** created by him by clicking on the delete button below the event details.

   Old events cannot be deleted and hence delete button for these events is disabled.
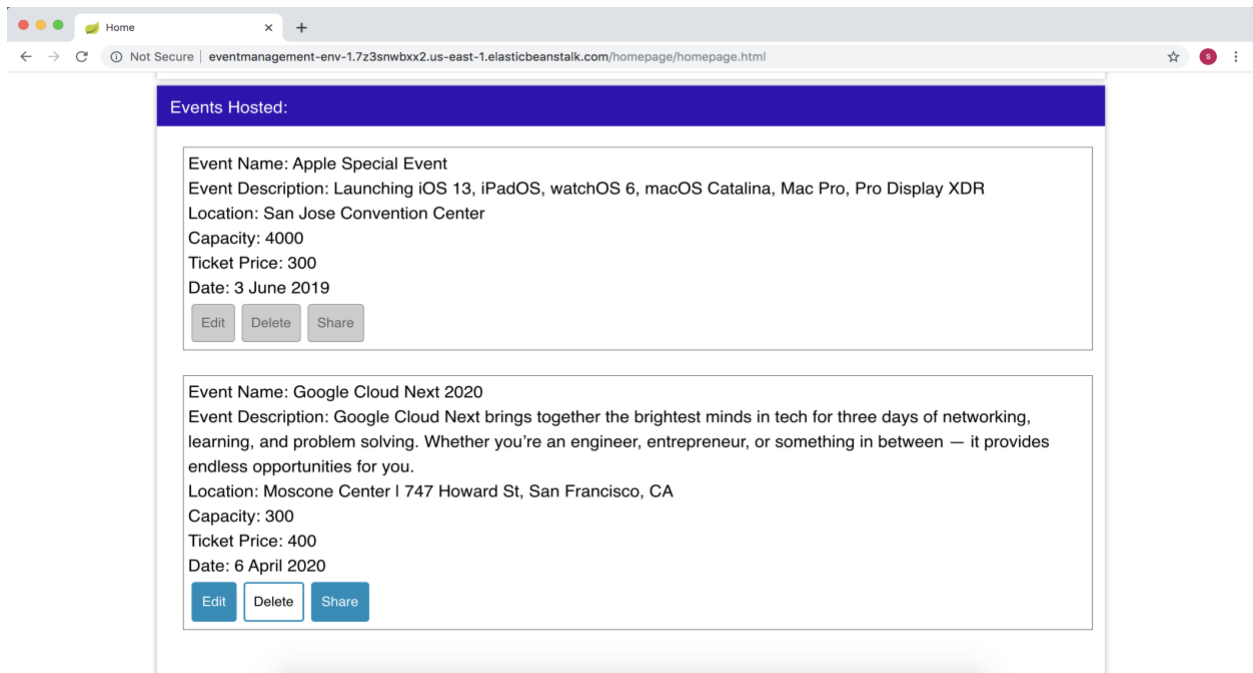
6. Events (Archive Event, Search for an Event):
   The Events page displays all the events that have been shared with him and hence are accessible to him. The events created by the user are also displayed here.
   A user can register for one of the events. He/ She can also **archive an event** by clicking on the Archive button for a particular event. These events will now be visible under the Archived Events page.

   Note: The user can archive only old events. For future events, archive button is disabled.

The user can also **search for an event.** The search box at the top of the list allows user to search an event based on the event name, description, location, capacity, ticket price or date.

7. Create Event:
    The Create Event page allows the user to **create new events.** The user needs to enter details such as the name of the event, location where the event will be organized, a short description of the event, date on which the event is to be organized, capacity of the event in terms of how many people can attend the event and the ticket price of the event.
    Once the user clicks on the create button, an event gets created and the details are stored in the database.

8. Share Event:
   The share event page allows the user to **share the events** created by the user with other users. Once the user selects the event name, the details of the event are displayed to the user. The user can then enter the user/users with whom the user wants to share the events by entering their usernames. The application provides autocomplete feature to suggest the usernames of the users present in the application.

   Note- Once the user shares an event with a user or number of users, only then these events are accessible to the users.
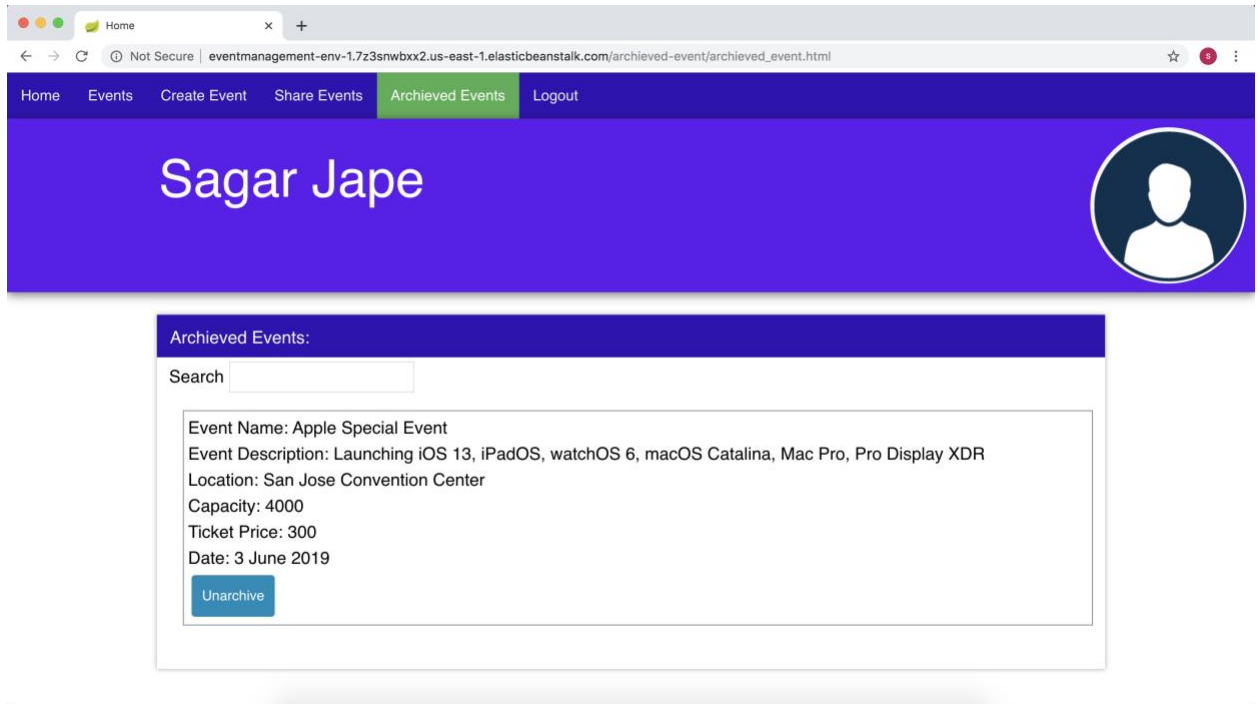
9. Archived Events:
   Archived events display the events archived by the user. These events are old events and the user may unarchive them by clicking on the Unarchive button.

10. Logout
    The user can logout of the application by clicking on the logout button. He will be logged out and navigated back to the login page.