

# *SFEVENTS*

*By:*

*Team 2*

*CSC648-848 Spring 2019*

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# 1.Executive Summary

Team 2 is developing an application that manages events in the entertainment industry. The inspiration behind our applications is to create a way for everyone to be able to join and create events easily. Our team is composed of people who adore trying to meet and connect with people but lack the social ability to talk to people face to face. This application helps bridges that gap by putting those socially awkward people in the driver's seat and going out to events that they themselves deem to be interesting. Application will allow event managers to post their events onto the page for other users to see while providing basic information about the event such as location and time. Once users register onto the site, users will be able to join events through a search option that can filter out preferences such as location, date, and time range. Additionally, once registered users will be able to create their own events as well as send invites via email to join said event. Once these invites are sent, the user receiving an invite will see a notification once they log in, informing them that they have been invited to an event.

## 2.Use Cases

### 1. General User

Luna wants to plan her spring break but she does not have enough savings to travel to another city. She is looking for pocket-friendly ideas to spend quality time during holidays. Luna checks nearby events which are organized in her city. She finds out some free music events and painting exhibition. She has now an option to attend her favorite singer concert with her family during her spring break.

### 2. Admin

Clarke is pursuing a diploma in event management. To gain an exposure on events arrangements, she opens a platform where users can come and publish their events. She wants to manage her event site by promoting skillful and affordable events. Hence, she creates a site to have information of upcoming events. Being an owner of the site, she does not want anyone to misuse her platform so she continuously monitors her sites by analyzing user reports of unwanted activity if any.

### 3. Registered User

Monty wants to arrange a get together of all school friends. He plans to make an arrangement in a resort but for booking he needs the headcount of his friends those who be attending the event. He creates an invitation and sends to all his school friends and ask them to confirm their presence for the event through email. He sends the agenda of the program and details of time and location through the invitation card. As this is a private event, only invited members can see the event invitation. If the invitation fails somehow due to system failure, it will be notified to sender. Sender can send the invitation to that person later.

## 3.Data Definition

### 1. Users

- Event Admin/Host - a registered user that creates, hosts, and manages an event. Event admin is also able to send invitations to the event, cancel it, and change any information related to it.
- Event Attendee - a user who wants to attend the event and searching for nearby events.
- Registered Event Attendee - a registered event attendee is a user who can make a reservation for upcoming events and also can create his own private event and send invitation to others.

### 2. Event

- Event title - A descriptive name of the event
- Location - Where the event takes place at (building, city, state...). An event may be online.
- Date/Time - Date and time the event takes place at
- Admin - An individual person that is the admin of the event
- People invited - List of people who have been invited to event (whether they have confirmed their invitation or not)
- Max of attendees - A fixed number that represents the maximum number of people who can attend the event
- Attendee list - A list of people who have received and later confirmed their invitation
- Poster - An optional poster of the event

### 3. Notification

- Invitation - Admins can select who they invite to a given event. Then, people invited can either accept or decline the invitation.
- Invitation accepted/declined (exclusive to admins) - Admins will receive a notification indicating whether someone who was previously invited has accepted or declined the invitation.
- Event changes/cancelation - attendees will be notified whenever something changes in an event they are attending (such as location or date/time), or if it gets cancel by the admin.
- Reminder - attendees can set a reminder prior to the event's start
- Event starts - attendees and admins can get notified when a given event starts.
- Event ended - attendees and admins can get notified when a given event is over.

## 4. Functional Requirements

### Event Attendee

1. User shall be able to view all events which are posted publicly.
2. User shall be able to check event based on various filters like location, category, and date.
3. User shall be able to view events based on offers and options to redeem reward points.
4. User shall be able to search for an event by its name or by related word.
5. User shall be able to sort event based on date and price.
6. User shall be recommended or notified for the free and nearby events.
7. User shall be able to view the duration of the event.
8. User shall be able to sign up to the website.
9. User shall be able to select and register for the event after sign up.
10. User shall be able to book more than one seats for the event.
11. User shall be able to rate or give feedback of any event anonymously.
12. User shall be able to get upcoming updates of the events by SMS.
13. User shall be able to book a seat by giving a minimal amount.
14. User shall be able to cancel his booking at least two days before the event.
15. All users shall be able to view the current availability of the seats for the event.
16. User shall have an option to include a meal or drinks to be served during the event.
17. User shall be able to add the event to his favorites.

18. User shall be able to remove events from favorites.
19. User shall be able to get updates on the next occurrence of the favorite events.
20. User shall be able to contact to the administrator in case of any queries.

## Registered Event Attendee

1. New user shall be able to register to the website.
2. New user shall be able to fill personal information while creating profile such as name, address.
3. The registered user shall be able to login to the site with given credentials.
4. The registered user shall be able to modify the details of the profile.
5. The registered user shall be able to check the notifications of other events.
6. The registered user shall be view invitation of other users i.e. private invitation of the event.
7. The registered user shall be able to respond to the private event notification.
8. User shall be able to create a new event.
9. User shall be able to partially save the new event.
10. User shall be able to modify his own saved event.
11. User shall be able to send invitations to other users through mail.
12. User shall be able to get confirmation about if the invited user is going to join the event.
13. User shall be able to delete the event created by him.
14. User shall be able to notify other users who are invited about the change in the event.
15. The registered user shall be able to upgrade to a premium version for additional facilities like to get the designed template for the event and to get SMS updates etc.

## Admin

1. Admin shall be able to block the public event if reported by users after manual checks
2. Admin shall be able to access any feedback or wrong information of any event.
3. Admin shall be able to communicate with general users to resolve their queries.
4. Admin shall be able to add offers to the newly registered users like reward points which user can use while booking the event tickets.
5. Admin shall be able to access all events data to perform analysis of the event and to recommend popular events to users.

## 5.Non-Functional Requirements

### Security

1. Login and password are required admin and host permissions.
2. Username will be the registered user's email address.

### Performance

1. The site should load quickly and instantly across all pages.
2. Searches within the site should take no longer than 1 second.

### Capacity

1. The site shall support future update features.

### Compatibility

1. This site will be compatible with the latest version of Firefox.
2. This site will be compatible with the latest version of Microsoft edge.
3. This site will be compatible with the latest version of Chrome Browser.

### Look and Feel

1. Layout and design of the website shall look easy to use.
2. Design of the website will be simple for users of any level to use.

### Internationalization / Localization Requirements

1. Default language of the website will be English.
2. The site supports locations of events within San Francisco.

### Data Integrity

1. Database tables shall be backed up.
2. Image sizes shall be limited up to 1 megabyte.
3. Images shall be uploaded in the correct format(jpeg).

### Recovery:

1. In a total failure case, the whole site should be put down to revision.
2. If broken, the mean time to recovery shall not excess of one day.

### Audit:

1. New registrations shall be audited by the administrator.
2. New registrations shall be approved by the administrator.
3. The site administrator shall be the only person authorized to configure the host interfaces.
4. The host shall not be allowed to modify any web configuration files.
5. The host shall not be allowed to login into the administrator page.
6. Users, registered or not, shall not be able to login into host and admin pages.

### Conformance with Coding Standards:

1. Architecture and design standards shall meet all the requirements listed under the High-Level Architecture section of this document.
2. Only working code that meets all the code standards shall be submitted to the project repository.
3. Any working code shall be tested and debugged before being considered working code.
4. Any internal errors or exceptions returned by the code shall be stored in a log.
5. Any error that may affect the functionality of the site shall be reported to the user.
6. Any error shall be handled in a way that does not affect the functionality of the site.
7. The whole production cycle of this site shall be finished 2 weeks before the delivery date.
8. This site shall not be launched without all the priority one featured finished and tested.
9. This site shall be tested and debugged as a whole 2 weeks before the delivery due date.

## 6.Competitive Analysis

	Facebook	Eventbrite	Google Search	SFEvents
Event Search	-	+	-	+
Event Availability	-	+	-	+
SF Event Locations	+	+	+	+
Search Events by location	-	+	-	+
SF Event Times	+	+	+	+
Friend Invites	+	-	-	+
Creating Own Events	+	-	-	+

SFEvents is the best application for looking for an event in the San Francisco Area. Key features are having the ability to create your own events and the ability to invite others. While some other applications only have some of these such as Facebook having the ability to create events and invite friends, SF events give you a way to search for events near you that Facebook does not offer. Google searches only give general information and no way for you to invite friends easily compared to SFEvents. The closest competitor to SFEvents is Eventbrite but they only shows event that are created by official organizations. While they have some local events, they don't provide a way for general users to create events locally. Additionally, events can be searched by location which can only be done by one other application known as Eventbrite.



## 7.High Architecture Specifications

- Application shall be developed using pre-approved set of SW development Node, React, Bootstrap, NGINX and collaborative tools approved i.e. Trello.
- Application shall store data in SQL database.
- Application shall be hosted and deployed on Amazon Web Services.
- Any other tools or frameworks have to be explicitly approved by Chief Technical Officer on a case by case basis.
- Application shall be viewable in a standard desktop/laptop browser, and shall render correctly on the two latest versions of all major browsers: Mozilla, Chrome and IE.
- Privacy of users shall be protected and all privacy policies will be appropriately communicated to the users.
- Application shall be very easy to use and intuitive. No prior training shall be required to use the website.
- The website shall prominently display the following text on all pages "SFSU Software Engineering Project, Spring 2019. For Demonstration Only". (Important so as to not confuse this with a real application).
- Modern SE processes and practices must be used as specified in the class, including collaborative and continuous SW development, using the tools approved by instructors.

## 8.Team

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|-------------------------|--------------------------|
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| 2. Yujin Li             | - Front-End Lead         |
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