

Project Blue - System Requirements

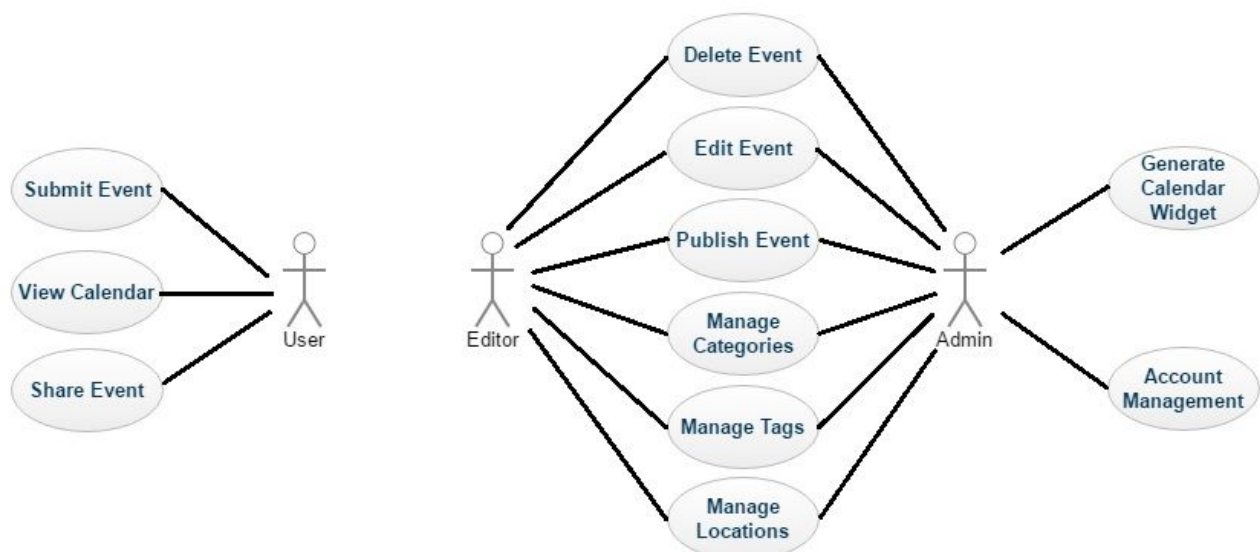
Narrative:

The following proposed framework will offer EDSN a robust and modular community calendar which will be accessible, extendable, and offer features similar to their prior systems. The two stored user roles will be Editors and Admins. Admins have the highest privilege level allowing them to do all actions including managing the other accounts and generating calendars to be used on EDSN's and other websites. Editor's are restricted to functions related to editing, publishing, and managing calendar events.

The main view for the calendar will be an administrator panel with three major sections, Generate Calendar Widget, View Events, and Account Management. Also on the administrator panel there will be a way to add to and view existing categories, tags, and locations. The Calendar Widget Generator will allow a user to turn off or on different features for the calendar such as filtering, sharing, and submitting. In addition, the Widget generator will allow the user to limit the scope of available events. A code snippet will then be generated which can be inserted into a user's webpage. In the view events screen you will be able to view individual events in order to edit or delete the event, manage its categories/tags/locations, and publish user submitted events. On the account management screen, admins will be able to add/edit/delete other admins and editors.

Once a calendar has been generated on website, visitors of the website can view the event data in different formats. The calendar view itself has a number of features that can be turned on and off. Basic options that can be enabled include allowing users to share and submit events. The event data will be filterable by tag, calendar, and location using the users choice of and/or logic.

Use Case Diagram:



User Stories:

1. View Calendar - As a user role, I want to view a calendar in different formats, so that I can see the event data.

Pre-Conditions

- A calendar has been generated and placed on a website.

Post-Conditions

- A user can see event data
- A user can filter for specific tags, categories, events, and dates

This is the most complex user story and can be decomposed into several key features such as the visualizing event data on the calendar, different calendar views, and filters.

2. Generate Calendar Widget - As an admin role, I want to generate different modular versions of the calendar to be used in mine and other's websites.

Pre-Conditions

- A calendar has been generated with all possible events

Post-Conditions

- User can see the modular version of the calendar with filtered events

The widget generator can be decomposed into multiple possible modular features that can be either turned off or on, or limit the scope of the event data itself.

3. Share Event - As a user role, I want to share an event over social media Apps

Pre-Conditions

- Event has been published
- Social media application is linked on our platform

Post-Conditions

- Event shared on social media

Sharing event could be decomposed by different social networks or email.

4. Submit Event - As a user role, I want to submit events to be reviewed for publishing.

Pre-Conditions

- Provided event information (time, date, information, tags, conditions)

Post-Conditions

- Notification that event has been submitted
- User can no longer edit the submitted event
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5. Publish Event - As a admin or editor role, I want to be able to view and publish submitted user events.

Pre-Conditions

- Event submitted for review
- Event information is valid

Post-Conditions

- Event published on calendar
- Users can view published event

6. View/Edit Event - As an admin or editor role, I want to be able to edit published and submitted events.

Pre-Conditions

- Event exists
- Event has been published to calendar

Post-Conditions

- Event is updated with changes
- Changes are reflected on calendar

7. Delete Event - As an admin or editor role, I want to be able to delete published and submitted events.

Pre-Conditions

- Event has been published to calendar

Post-Conditions

- Event removed from calendar
- Tags associated with event are removed

8. Manage Categories - As an admin or editor role, I want to view and add categories for events that can be filtered by users.

Pre-Conditions

- Category exists

Post-Conditions

- Category list reflects changes to selected category

9. Manage Tags - As an admin or Editor role, I want to view and add tags for events that can be filtered by user

Pre-Conditions

- Tags exists

Post-Conditions

- Tag list reflects changes to the selected tag

10. Manage Locations - as an admin or editor role, I want to view and add locations for events that can be filtered by users.

Pre-Conditions

- List of events tied to locations

Post-Conditions

- Location added to list after modification
- Location removed from list after modification

- Location information changed after modification of list

11. Account Administration - As an admin role I want to be able to manage who my admins/editors are

Pre-Conditions

- Administrative role
- More than one administrator

Post-Conditions

- Administration levels modified

User story 11 can be decomposed into specific actions like new account, update account, delete account.

User stories 4, thru 10 could not be decomposed further.

Non Functional Requirements:

- The administration panel should be structured similarly to the previous system in order to allow ease of user for prior administrators.
- Database must be created using MySQL.
- Project must remain open source and non-commercial, using APIs that are open source.

Glossary:

User - Public facing user outside of the system.

Admin - Administrator, highest security in system, has all privileges.

Editor - Has access to admin features related to viewing and manipulating events.

Category - expandable set of stored keywords that can be used to categorize events

Tag - expandable set of stored keywords similar to hashtags.

Location - expandable set of stored keywords that can represent real life locations.

Widget - modified version of callendar which could be added on associated websites.

Event - A single record in the database representing an event object and of its relevant data.