

**SOFTWARE ENGINEERING**

# **INIZIO**

Event management website

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## **1. INTRODUCTION:**

"Inizio" meaning new beginning, encapsulates a platform that heralds a fresh start for users delving into the world of event management. As a comprehensive website, Inizio offers a user-friendly interface and a plethora of tools designed to streamline the intricate process of event planning. Inizio helps you find the sponsors, organizers and even audience for your event, guiding you with efficiency and ease. Welcome to Inizio, where every event and every beginning is met with the right tools and the right platform.

### **1.1 PURPOSE**

#### **Attendee of the Event:**

- As an attendee, the website serves as a comprehensive platform to discover, access, and engage with various events tailored to my interests.
- It provides a convenient one-stop destination to explore upcoming events, purchase tickets, access event details, including schedules and locations, and interact with other attendees.
- The website enhances the overall event experience by offering seamless registration, easy access to event information, and the opportunity to connect with like-minded individuals.

#### **Organizer of an Event:**

- As an event organizer, the website serves as a valuable tool for efficiently planning, promoting, and managing events.
- It offers a centralized platform to create and customize event listings, manage registrations, track attendance, and communicate with attendees.
- The website streamlines event logistics, simplifies ticket sales and payments, and provides valuable insights through analytics and attendee feedback.
- It helps me effectively market my event, maximize attendance, and ensure a successful and memorable experience for participants.

#### **Sponsors:**

- As a sponsor, the website serves as a strategic platform to connect with target audiences and enhance brand visibility.
- It offers opportunities to sponsor events, promote products or services, and engage with attendees through various marketing channels, including advertisements, branded content, and sponsorships.
- The website facilitates meaningful partnerships between sponsors and event organizers, providing exposure to a diverse audience and opportunities for brand recognition, lead generation, and customer acquisition.

#### **Vendors:**

- As a vendor offering services for the event, the website serves as a valuable marketplace to showcase products or services and connect with event organizers and attendees.
- It offers opportunities to list services, such as catering, entertainment, venue rentals, and transportation, and reach potential customers seeking event-related solutions.
- The website facilitates seamless transactions, inquiries, and bookings, enabling vendors to expand their client base, generate leads, and establish partnerships within the event industry.

## **1.2 SCOPE**

Inizio is like a first-of-its-kind website that focuses entirely on helping people who plan or go to events. Unlike other apps that handle bits of event stuff, Inizio is special because it really understands the problems faced by those dealing with events. It's a one stop solution - it helps not just the folks attending the events but also those planning them. So, whether you're organizing an event or just showing up, Inizio has got your back, making it a go-to place for everything related to events.

### **IN SCOPE:**

- **Event Planning Assistance:** Inizio covers all aspects of event planning, from logistics and venue selection to budgeting and coordination.
- **Audience Engagement:** The platform facilitates audience building by connecting organizers with potential attendees, sponsors, and collaborators.
- **Troubleshooting:** Inizio addresses common issues faced during event organization or attendance, providing solutions and assistance.
- **Comprehensive Tools:** A user-friendly interface and a diverse set of tools cater to the specific needs of event planners and attendees alike.
- **Networking Opportunities:** Inizio fosters connections by providing a space for organizers and attendees to engage, share ideas, and collaborate.
- **Ticketing Services:** While Inizio assists in connecting organizers with potential attendees, it does offer direct ticketing services.

### **OUT OF SCOPE:**

- **Non-Event Related Services:** Inizio focuses exclusively on events and does not extend its services to areas unrelated to event planning or attendance. Unrelated issues such as personal matters or unrelated professional services, fall outside the platform's scope.
- **Industry-Specific Events Only:** While Inizio caters to a broad range of events, it may not cover highly specialized or niche industry-specific events.

## **1.3 REFERENCE**

IEEE SRS Format

## **2. OVERALL DESCRIPTION**

### **2.1 PRODUCT PERSPECTIVE:**

- Sponsors can browse through a list of events happening in their vicinity or areas of interest. They can then select which events they want to sponsor based on their preferences and criteria.
- Sponsors can easily connect with event organizers through the website to discuss sponsorship opportunities. Organizers, in turn, can showcase their events and attract sponsors by providing details such as event descriptions, target audience, and sponsorship packages.
- Event organizers can submit their events to the website, providing all necessary details such as event dates, location, description, and sponsorship opportunities. They can also manage their sponsor relationships and display a list of current sponsors on the website.

- Attendees can view upcoming events on the website and register to attend those that interest them. The registration process may involve generating tickets or confirmation codes for entry to the event.
- Organizers can search for vendors such as decorators, caterers, and other service providers through the website. Vendors can also showcase their services and connect with event organizers interested in hiring them.
- The platform facilitates communication between sponsors, organizers, vendors, and attendees, allowing them to interact and collaborate effectively

## **2.2 USER CHARACTERISTICS:**

- a. The user should be familiar with basic web browsing and interaction on websites.

## **2.3 PRINCIPAL ACTORS:**

The principal actors in "INIZIO" are "Admin", "Attendee", "Organizer", "Vendors" and "Sponsors".

## **2.4 GENERAL CONSTRAINTS:**

- a. Working of "INIZIO" requires Internet connection.
- b. "INIZIO" is a multi-user Application. Because the platform facilitates communication between sponsors, organizers, vendors, and attendees, allowing them to interact and collaborate effectively.

## **2.5 ASSUMPTIONS AND DEPENDANCIES:**

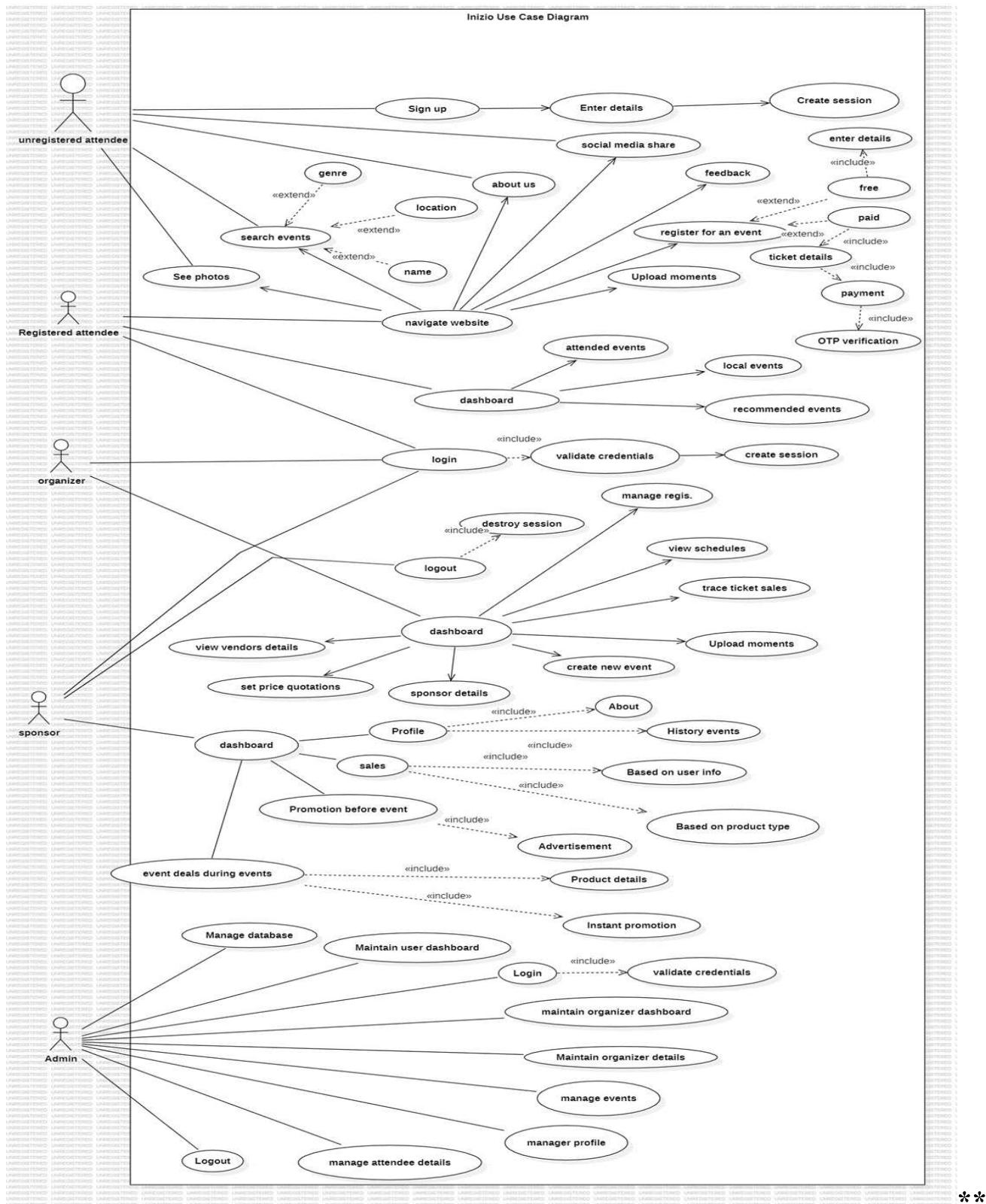
- a. Working of "INIZIO" is dependent on the availability of Internet connection.
- b. Admin, Organizer, Sponsors, Vendors must be active to insert all the required information on the portal.

## **2.6 Product Functions:**

S.no	Use Cases	Description
1	Event creation	Allow organizers to create events with details such as title, date, time, venue and description

2	Event registration (listing)	Provide a registration system for attendees to sign up for events, including options for free or paid registration
3	Event details page	Provide the details of a particular event
4	User authentication	Implement a secure user authentication system for organizers and attendees to create accounts and login
5	Sponsorship	Provide details about sponsors
6	Search functionality	This will allow the user to search for events happening around them
7	Attendee management	Allow organizers to view and manage attendee information, send updates and communicate with participants
8	Event Dashboard	Offer organizers a dashboard to manage and track registrations, ticket sales and other event-related data
9	Social media sharing	Allow the attendees, organizers to share about upcoming events on their social media handles
10	Payment process	Enable secure payment processing for paid events, supporting various payment methods
11	Feedback and ratings	Allow attendees to give feedback and ratings for events, helping organizers to improve future events
12	Moments (photos) page	Showcase the pictures of past events, organized through our platform
13	About Us/FAQ page	This will display general information about us
14	Contact Us page	guide users to contact us for any query or information
15	Dynamic databases	This will store the data.

### 3. USE CASE DIAGRAM



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## **4. FUNCTIONAL REQUIREMENTS**

### **Use Case 1:**

**Name:** Navigate website

**Actor:** Any user

**Summary:** It represents that any user who gets to know about our website and search for that, he/she will be navigated to the home page of website which is common to all.

#### **Pre-conditions:**

- Internet connectivity

#### **Post Conditions:**

- Already registered users can login to their account and navigate to their respective dashboard.
- New users can register to be part of our community.

#### **Extended Use Cases**

- **About Us:** Tells the user what the website does and what the procedure is.
- **Social Media Share:** Let the user share ongoing event details on their social media handle.
- **Feedback:** Allow attendees of any past event (which they attended) to give feedback regarding the organization of the event.
- **Event Dashboard:** Provide a personal dashboard to each user after logging into their account for various features of the website.

### **Use Case 2:**

**Name:** Authorized login or register

**Actors:** Attendee, Organizers, Sponsors.

**Summary:** Allows attendees, organizers and others to login.

#### **Pre-Conditions:**

- Internet connectivity
- Requires user's id and password to login.

#### **Success scenario:**

- User clicks on login tab and gets redirected to the login page.
- User enters id and password.

#### **Post Conditions:**

- If the user is new to the website, they will be directed to the registration page to register first.

- Then the user is redirected to the respective dashboard according to the type of user (Attendee, Organizers, sponsors).
- Users can now access all features of the website from organizing an event (by organizers) to booking the tickets (by attendees) for attending an event.

### **Use Case 3:**

**Name:** Validate credentials

**Actor:** Attendee, Organizer, Sponsors

**Summary:**

- The system compares the provided credentials with the stored user data in the Authentication System.
- If the entered credentials match the stored data, the user gains access to the system.
- The user is redirected to the system's dashboard or a designated landing page.
- If id or password is incorrect. Handled by Gmail.

### **Use Case 4:**

**Name:** Create session

**Actor:** Attendee, Organizer, Sponsors

**Summary:** This use case outlines the steps involved when a user attempts to log into the application or system, creating a new session.

**Pre-conditions:**

- Must register or log in to the dashboard.
- Credentials must have been validated.
- The system must be operational and accessible.

**Success scenario:**

The user navigates to the interface of the system.

**Post conditions:**

- If successful, the user is logged into the dashboard and granted access to the appropriate functionalities.
- If unsuccessful, an error message is displayed, and the user may be prompted to retry logging in or take alternative action.

### **Use Case 5:**

**Name:** Event Dashboard

**Actor:** Attendee, Organizer, Sponsors

**Summary:** Centralized page for various features and functionalities related to event management, organizing, participation etc.

**Pre-conditions:** Users must have an account on the website and log into it.

**Success scenario:**

- Provides an upcoming event overview including event name, location, date, time etc.
- Allow users to register for an event
- Allow users to share event details with friends, invite friends.

**Use Case 6:**

**Name:** Attended events

**Actor:** Attendee

**Summary:** Attendee can view the details of event they attended in past.

**Pre-conditions:**

- Users must be logged into their account as attendees.

**Success scenario:**

- It will show the events attended and details.

**Post conditions:**

- If you have not attended any event, then recommend some upcoming events.

**Use Case 7:**

**Name:** Search Events

**Actor:** Attendee

**Summary:** Let the user search the events according to their preferred location, genre etc.

**Pre-conditions:**

- Network connectivity

**Extensions:**

- Location
- Name of event
- Genre

**Success scenario:**

- The user navigates to the search bar where they can browse the upcoming events.
- Some other recommendations are shown based on the search.
- Users can select the location, the type of event they are searching for, etc.
- This will fetch the results and show it on the page.

**Use Case 8:**

**Name:** Register for an event

**Actor:** Attendee

**Summary:** Allow users to register for an upcoming event from their dashboard.

**Success Scenario:**

- Upon selecting an event, the user is presented with detailed information about the event, including its name, date, time location, description and any associated costs.
- For free events, users register only by clicking a “register” button.
- For paid events, the user is prompted to select desired ticket type and quantity.

**Post conditions:**

- Once clicked the button, it will navigate the user to the ticket details page.
- If the user is not already logged in, they are prompted to log in to their account or create a new account if they are a new user. This will ensure that registration is associated with the correct user profile.

**Use Case 9:**

**Name:** Ticket Details

**Actor:** Attendee

**Summary:** Provides an interface for ticket booking to attend a paid event and shows the details of tickets available with pricing.

**Pre-conditions:**

- Must have searched for a paid event.

**Success Scenario:**

- User selects the desired ticket type (general admission, VIP) and quantity.
- If you have already booked the tickets, they show the details of the tickets and provide the option to download them.

**Post conditions:**

If selected a ticket then the user is directed to a secure payment gateway where they can enter their payment details (e.g., credit card details).

**Use Case 10:**

**Name:** Payment Gateway

**Actor:** Attendee

**Summary:** Provides a secure gateway for payment to book the tickets of selected event. Only after the successful payment, user will be registered for that event.

**Includes**

**Use case 11:**

**Name:** OTP Verification

**Actor:** Attendee

**Summary:** One Time Password is sent to the user's registered mobile number for final click to register for an event as an attendee. After this, the user is finally an attendee of that event.

### **Use Case 12:**

**Name:** Manage Registrations

**Actor:** Organizers

**Summary:** The functionalities available to organizers for managing event registrations, including viewing, modifying and communicating with attendees.

#### **Pre-conditions:**

- The organizer must have appropriate permissions and access rights to manage event registrations.
- The event must have registrations associated with it.

#### **Success scenario:**

##### 1. View Registrations:

- The organizer accesses the registration management interface.
- The system displays a list of registered attendees for the event, including their names, contact information, registration status, and any additional details collected during registration.

##### 2. Modify Registrations:

- The organizer selects a specific attendee registration.
- The system allows the organizer to modify attendee details (e.g., name, contact information) or update their registration status (e.g., approve, cancel, or mark attendance).

#### **Post-conditions:**

- Attendee registration details are accurately managed according to organizer actions.

### **Use Case 13:**

**Name:** View schedules

**Actors:** Organizers

**Summary:** It outlines the functionalities available to organizers for viewing event schedules, including sessions, activities, and timings.

#### **Preconditions:**

- The organizer must have appropriate permissions and access rights to view event schedules.
- Event schedules must be created and available within the system.

### **Success Scenario:**

#### **Access Schedule Interface:**

- The organizer navigates to the event management dashboard or schedule section within the system.
- The system provides access to the schedule interface.

#### **View Event Schedule:**

- The organizer selects the desired event or date range.
- The system displays the event schedule, including sessions, activities, workshops, and other relevant information.

#### **View Session Details:**

- The organizer clicks on a specific session or activity within the schedule.
- The system presents detailed information about the selected session, including its title, description, presenter(s), duration, and any associated materials or resources.

### **Use Case 14:**

**Name:** Trace ticket sales

**Actors:** Organizers

**Summary:** Organizers can track the sales of tickets for a particular event and analyze the data.

#### **Pre-conditions:**

- The organizer must have appropriate permissions and access rights to view ticket sales data for their events.
- Event Ticketing functionality must be enabled and associated with the organizer's events within the system.

#### **Success scenario:**

- The system provides access to the ticket sales dashboard specifically for the organizer's events.
- The system retrieves ticket sales data specific to the selected event.
- Presents an overview of ticket sales data for the selected event, including total tickets sold, revenue generated, and ticket availability.

#### **Post conditions:**

- The organizer gains insights into ticket sales performance, revenue generated, and attendee engagement for their events.

### **Use Case 15:**

**Name:** Upload moments

**Actors:** Organizers

**Summary:** Organizers upload the photos and videos of the past events organized by them.

#### **Pre-conditions:**

- Organizer must have organized at least one event in the past through our website.

**Success scenario:**

- Photos are uploaded on the website.

**Post-conditions:**

- Attendees can get insights into the events organized through our website. It can attract more and more attendees to attend the upcoming events.

**Use Case 16:**

**Name:** Create new event

**Actors:** Organizers

**Summary:** The create new event for organizers use case outlines the functionalities available to organizers for creating a new event within the event management system.

**Pre-conditions:**

- Organizer must have registered on the website.

**Success scenario:**

- The organizer logs into the event management system and navigates to the event creation section.
- The organizer enters basic event details such as the event name, date, time, location, description, and any relevant tags or categories.

## Set Ticketing Options:

- If ticketing is enabled for the event, the organizer configures ticket types, prices, availability, and any discounts or promotional codes.

## Define Event Schedule:

- The organizer creates the event schedule, adding sessions, workshops, activities, and any other program elements.
- The system allows the organizer to set the timing, duration, and location for each scheduled item.

## Publish Event:

- Once satisfied with the event setup, the organizer confirms and publishes the event.
- The event becomes live and visible to attendees on the event management system and any associated platforms.

**Post conditions:**

- A new event is successfully created and added to the event management system.

**Use Case 17:**

**Name:** Sponsor Details

**Actors:** Organizers

**Summary:** Sponsors' details available to organizers for accessing and viewing details of event sponsors.

**Pre-conditions:**

- Sponsor information must be available and associated with the event within the system.

**Success scenario:**

- The organizer navigates to the sponsor details interface for the specific event.
- The system displays a list of sponsors associated with the event, including sponsor names, logos, and sponsorship levels.
- The system presents sponsor details such as contact information, sponsorship package details, agreed-upon contributions, and any additional notes or requirements.
- If necessary, the organizer can initiate contact with sponsors directly from the sponsor details interface.

**Post-conditions:**

- The organizer gains insights into sponsor commitments, contributions, and contact information for event coordination.

### **Use case 18:**

**Name:** Profile

**Actor:** Sponsors

**Summary:** Is focused on providing sponsors with the ability to create, manage, and customize their profiles within the system.

**Pre-conditions:**

- Login Authentication
- Valid Sponsorship Agreement
- Event Registration Confirmation

**Success Scenario:** The sponsor successfully uses the profile for various interactions within the event management system, such as participating in events, selecting sponsorship packages, and engaging with organizers and attendees.

**Extensions:** About and History events

**Post Conditions:**

- Profile successfully updated or created

### **Use case 19:**

**Name:** Sales

**Actor:** Sponsors

**Summary:** Focuses on the interactions and transactions related to Sponsorship

**Pre-conditions:**

- Login Authentication
- Pricing Information
- Payment Processing
- Invoice Generation

Main success scenario: Ensuring a smooth and efficient process for sponsors to explore select, and purchase sponsorship packages through the event management application, contributing to a successful partnership between sponsors and event organizers.

**Extensions:** Sales based on user information and sales based on product type

**Post Conditions:**

- The system maintains a record of the sponsorship transaction for documentation purposes.

**Use case 20:**

**Name:** Promotion before events

**Actors:** Sponsors

**Summary:** Outlines the interactions and relationships between actors and the system concerning promotional activities conducted before an event.

**Pre- conditions:**

- The event must be created beforehand
- Promotional elements should be available
- Active Collaborations

Main success scenario: Marketing team successfully creates engaging promotional content

**Extensions:** Advertisement

**Post Conditions:**

- Relevant metrics (engagement, reach) are successfully monitored and recorded.

**Use case 21:**

**Name:** Event deals during events

**Summary:** Involves the interactions and transactions related to special deals, promotions, or offers that occur during the event. This may include discounts, bundle offers, or exclusive promotions provided by sponsors to engage with event attendees.

**Actors:** Sponsors

**Pre- conditions:**

- Event should be active
- Sponsor should be logged in
- Deal should be approved

**Success Scenario:** The sponsor configures the details of the deal, including discount percentage, products/services included, and any applicable conditions. Once configured, the sponsor activates the deal, making it visible to event attendees.

**Extensions:** Product details and Instant promotion

**Post Conditions:**

- Deal successfully activated

**Use case 22:**

**Name:** Admin Dashboard

**Summary:** It involves various administrative tasks and functionalities that an administrator can perform

**Actors:** Admin

**Pre-conditions:**

- Admin Authentication
- System availability
- Proper admin permissions
- Data Integrity
- Analytics data availability

**Success scenario:** The main success scenario ensures that administrators can efficiently and effectively manage various aspects of the event management system, contributing to the success and smooth operation of events. It involves secure authentication, accurate data management, and informed decision-making based on analytics and reports.

**Extensions:**

- Login- Authenticates administrators for access to the admin panel.
- Logout- Allows administrators to securely end their sessions.
- Manage Database Administers tasks for database administration, maintenance, and optimization.
- Maintain user dashboard- Oversees user activity and interactions.
- Maintain organizer dashboard- Supervises organizer activities and engagements.
- Manage attendee details- Handles attendee information and related tasks.
- Manage events- Covers tasks involving event creation, modification, and oversight.
- Manager profile- Displays detailed information about the manager.
- Manager organizer details- Related to the retrieval and management of details about the organizers

**Post-conditions:**

- Events configurations saved
- Sponsors, organizers and attendees action processed
- Analytics And Reports Updated

### **Use Case 23:**

**Name:** Logout

**Actor:** Attendee, Organizer, Sponsors

**Summary:** Logging out involves terminating the user's current session and clearing any associated session data and credentials.

#### **Includes:**

**Name:** Destroy session

#### **Pre-conditions:**

- Users must be logged into their account.

#### **Post-conditions:**

- The user is logged out of the session.
- Any session data and credentials associated with the user's session are cleared.
- The user is redirected to a designated landing page of the website.

#### **Success scenario:**

- The user initiates the logout process by selecting the "logout" option from the user interface.
- The system confirms and proceeds with the logout process.
- The system terminates the user's current session and clears any session data associated with the user.

## **SOFTWARE REQUIREMENTS:**

- **Visual Studio Code:** It is recommended as a development environment (IDE) due to its full functionality, strong support for web development, simple concepts, debugging and building. The library continues to grow.
- **Apache web server:** Widely used due to its versatility, Apache web server is designed to host web applications and serve web pages to user browsers due to its reliability and performance in serving on the web. and other tools to stimulate development in the region.
- **Bootstrap CSS framework:** It is a popular choice for interfaces due to its user-friendliness and comprehensive collection of design elements that simplify the process of visual design, display, and linking on the web.
- **PHP:** PHP was chosen for its simplicity and popularity in server-side scripting and can be used with MySQL and Apache to create dynamic websites and web applications.
- **Operating Systems:** Windows, macOS and Linux support allows developers to work in their preferred environment while providing flexible options based on personal preference and physical compatibility.
- **JSON:** It is a simple, easy-to-use data exchange format widely used in today's online technologies. It is used only for transferring data between servers and web applications. It is compatible with JavaScript.

- **JavaScript:** A widely used web development library and framework supported by all current web browsers; Authoring and interaction on the user's part are necessary to create good rules and content for online websites.

## HARDWARE REQUIREMENTS

Processor: Any modern multi-core processor (e.g., Intel Core i3/i5/i7, AMD Ryzen).

RAM: At least 4GB of RAM for smooth performance.

Storage: At least 200MB of available disk space for the installation, 500MB of available disk space for web server files and logs, 500MB of available disk space for PHP files and database storage.

## NON-FUNCTIONAL REQUIREMENTS

Information submitted by vendors, sponsors, and organizers for display on the portal must undergo verification by the administrator before being published or made accessible to users. This verification process ensures the accuracy, validity, and appropriateness of the content displayed on the website.

## DESIGN CONSTRAINTS

- Responsive design: The website should adapt seamlessly to different devices and sizes for the best user experience.
- Data Security: Strong measures to protect user data, including personal information and payment details, from unauthorized access or disclosure should be implemented.
- Intuitive Navigation: Design an easy-to-use interface that allows users to easily find relevant information, making users happy and engaged.
- Scalability: Design the website to manage traffic capacity and ensure performance and ease of use during registration events.