**SRS FOR EVENT MANAGEMENT APPLICATION**

**Introduction:**

Event management is the process of planning and organizing various types of events, ranging from conferences, concerts to weddings, parties. Successful event management requires coordination, attention to detail, and effective communication to ensure that events run smoothly and meet the objectives and expectations of both organizers and attendees.

In today's fast-paced and digitally connected world, event management has evolved significantly with the help of technology. Event organizers now rely on software applications and tools to streamline the planning and execution processes, enhance attendee experiences, and maximize event success.

The Event Management application is a user-friendly application that provides different features to make any event management easy and carefree. It provides event organizers with a comprehensive set of features and capabilities to facilitate the entire event lifecycle, from event creation and promotion to managing events. The Event Management Application revolutionizes the way events are planned, managed, and enjoyed.

**Problem Statement:**

The existing event management process faces several challenges that reduce the efficiency and effectiveness of planning and organizing events. Time-consuming tasks, such as managing dates and paper-based registration forms, lead to inefficiencies and increased workloads for event organizers. Poor communication result in delayed updates and insufficient response to attendee queries. Lastly, the current event management processes lack scalability to accommodate larger events or a growing number of attendees and organizers. Addressing these challenges, an Event Management Application is needed to streamline event management processes, improve event visibility, improve communication, simplify registration and data management and provide scalability for events of varying sizes.

**Scope:**

The Event Management Application is a comprehensive and user-friendly software solution for planning, organizing, and managing events of varying types, scales, and complexities. The application aims to improve the event management process, providing organizers with a wide range of tools and features for a successful event execution. It will allow event organizers to create and set up events by inputting essential details such as event name, date, time, location, and description. Organizers will also have the ability to categorize events based on different types, such as conferences, concerts, workshops, and more. It will prioritize a user-friendly interface, responsiveness, and compatibility across different screen sizes to enhance the overall user experience. In conclusion by incorporating these features, the application aims to simplify event management processes, improve attendee experiences, and ensure the success of various events.

**Tools and Technologies:**

In The Event Management Application, we have used a variety of tools and technologies to provide comprehensive functionality. These tools include:

**Programming Languages:**

For front-end development we are using React Js and for back-end development we are using Node Js.

**Database Management:**

We are using MongoDB to efficiently store and manage event data, user information, and other relevant data.

Lastly, we are using Gitbucket an open-source Git platform for collaboration in the development of the Event Management Application. It allows multiple developers to work together, track changes, and manage code repositories efficiently throughout the app's development lifecycle.

**Functional Requirements:**

**User Management:**

* The app should allow users to register and create individual accounts.
* Users should be able to log in using their credentials.
* The app should provide password recovery functionality.

**Event Creation:**

* Organizers should be able to create new events by providing essential details such as event name, date, time, location, and description.
* The app should support the ability to categorize events based on types (e.g., conferences, concerts, workshops).

**Event Management:**

* Organizers should be able to view and manage a list of their created events.
* Organizers should be able to manage and modify basic event details.

**Non-Functional Requirements:**

**Performance:**

* The app should provide a responsive and smooth user experience, ensuring quick load times for event listings.
* It should handle a large number of simultaneous users without significant performance degradation.

**Security:**

* User authentication and data transmission should be secured using encryption protocols. It should comply with relevant data protection and privacy regulations.

**Reliability:**

* The app should be highly reliable, minimizing the risk of crashes or data loss.
* It should have backup and recovery mechanisms in place to ensure the integrity of event information.

**Usability:**

* The app should have a user-friendly interface, ensuring ease of navigation and minimizing the learning curve for organizers.
* It should be compatible with different screen sizes and accessibility standards.