SOFTWARE REQUIREMENTS SPECIFICATION

For

Event Management System

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1. Introduction

1.1 Purpose

Event Management is the process of analyzing, planning, marketing, producing andevaluating an event. It is a different way of promoting a product, service or idea. If an event is managed efficiently and effectively, it can be used as a very powerful promotional tool to launch or market a product or service.

1.2 Document Conventions

- Entire document should be justified.
- Convention for Main title
  - Font face: Times New Roman
  - Font style: Bold
  - Font Size: 14
- Convention for Sub title
  - Font face: Times New Roman
  - Font style: Bold
  - Font Size: 12
- Convention for body
  - Font face: Times New Roman
  - Font Size: 12

1.3 Scope of Development Project

The scope of this project is to develop a system that effectively manages all the data related to the various events that take place in an organization. The purpose of "Online Event Management System" is to provide better way to select event halls for different events like Wedding Functions, College parties, Political Meeting etc. Online Event Management System manages events like live shows, Birthday Events, Concerts; Wedding Events User can see decoration of halls, style of halls and can book them online without going to the management office. The system provides time efficiency as it saves a lot of time of the user because users did not need to go outside. It also provides the reporting feature, which explains the reports of previous years etc. The users, which involve in this system, are Administrators ,Vendors and Customer.

1.4 Definitions, Acronyms and Abbreviations

JAVA -> platform independence
SQL-> Structured query Language
ER-> Entity Relationship
UML -> Unified Modeling Language
IDE-> Integrated Development Environment
SRS-> Software Requirement Specification

1.5 References

- Books
  - Software Requirements and Specifications: A Lexicon of Practice, Principles and Prejudices (ACM Press) by Michael Jackson
  - Software Requirements (Microsoft) Second EditionBy Karl E. Wiegers
  - Software Engineering: A Practitioner's Approach Fifth Edition By Roger S. Pressman
- Websites
  - **http://www.slideshare.net/**
  - **http://ebookily.net/doc/srs-library-management-system**

2. Overall Descriptions

2.1 Product Perspective

The software will be a new independent product, that it, it is not a component of another program. It is intended for the administration of the management and other concerned users.

The product will import its data from Microsoft Access2010 database and use the Visual Basic.NETfor its integrated development environment that uses COM as programming model.The staff members and the manager/supervisor aside from the developers can only access thisinformation. All the forms used in the product follows a clear and logical structure. Errors will beminimized with drop-down buttons and command buttons to eliminate the excessive use of textinput. Management of data includes searching, adding, modifying and deleting. The productspecified will be developed for web application.

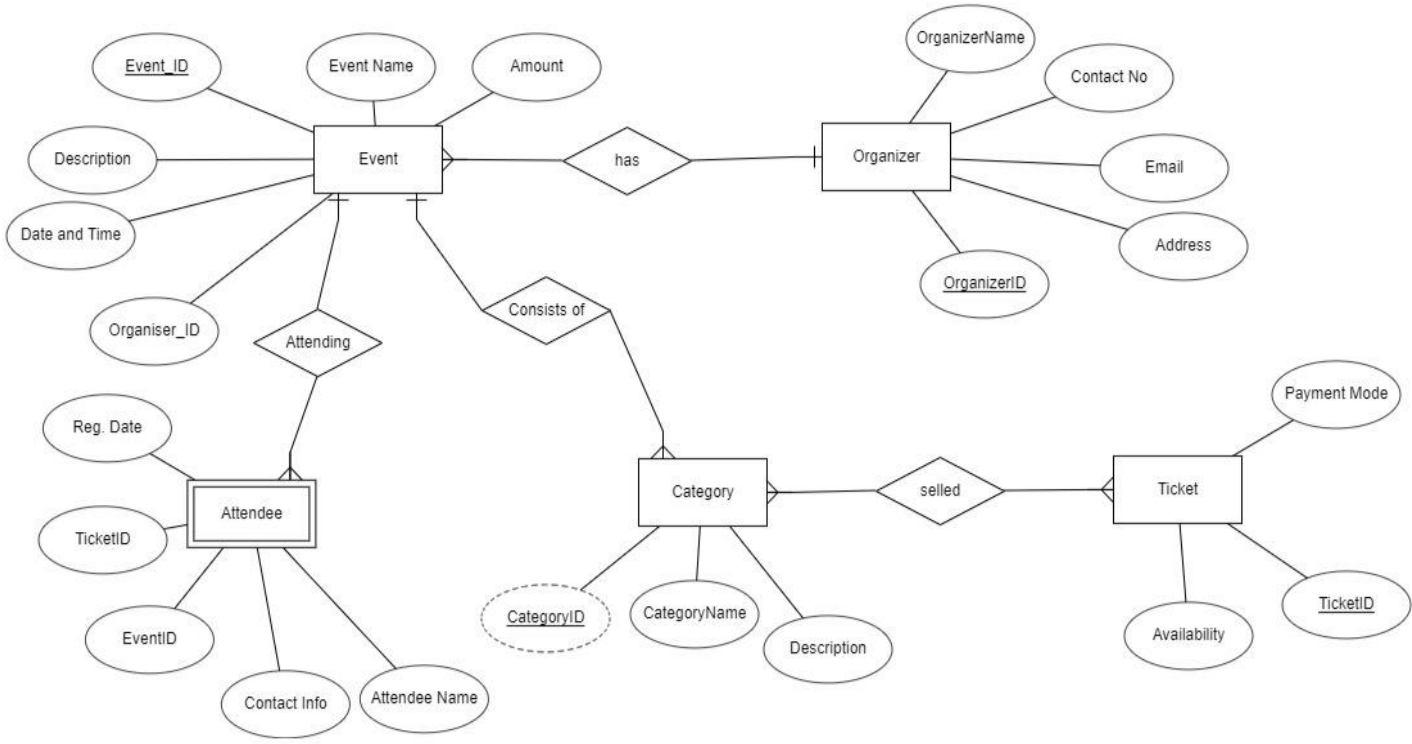
The Management of Event Operations: project management, planning and customer satisfaction provides an introduction to the management of operations for the event planner and venue provider.

Taking an holistic view of an event enterprise, it links the traditional topics withinoperations management to present a coherent and hands-on approach specifically for theevents manager.

The approach is pragmatic and is dictated by practical consequences and considerations,which are so important to an event manager who balances many views and needs fromdiverse stakeholders

2.2 Product Function

Entity Relationship Diagram of Event Management System



The primary target users of this software are the Event heads. They are in-charge of schedulingevents and managing participant information, thus, they will be the most frequent users of thissoftware. Moreover, these people are assumed familiar with basic computer processes that willenable them to use this software. Their aim in the use of this software is to access or updateexisting participant information, add new participant information and make easy the billing procedure of the participants.

2.3 User Classes and Characteristics

The features that are available to the Event Management System are:-

- Protect the database of the firm by requiring a correct and registered username and password
- Make data organization easier by classifying participants according to sub-types of personal events.
- Facilitate a systematic process of entering, organizing, retrieving, modifying and deletingdata from the database without the need to go the database itself.
- Add new client information easily
- Provide an option for users to update information
- Delete existing client information.
- Create new events.
- Provide an easy function where you can go back one form whenever necessary.
- Present a list of participant codes representing existing clients.
- Add new supplier contacts with which future collaboration is expected.
- Display client information in an organized manner for easy understandability.
- Display payment terms of participant including the total event fee, amounts paid by the participants and the balance.

2.4 Operating Environment

Specify the compatible operating systems for both server and client-side components. Common choices include Windows Server, Linux distributions, and various client operating systems (Windows, macOS, iOS, Android).

2.5 Assumptions and Dependencies

The assumptions are:-

- The coding should be error free
- The system should be user-friendly so that it is easy to use for the users
- The system should have more storage capacity and provide fast access to the database
- The system should provide search facility and support quick transactions
- The Event Management System is running 24 hours a day
- Users may access from any computer that has Internet browsing capabilities and an Internet connection
- Users must have their correct usernames and passwords to enter into their online accounts and do actions

The dependencies are:-

- The specific hardware and software due to which the product will be run
- On the basis of listing requirements and specification the project will be developed and run
- The end users (admin) should have proper understanding of the product
- The system should have the general report stored
- The information of all the users must be stored in a database that is accessible by the Event Management System

2.6 Requirement

Software Configuration:-

The operating system (OS) required in order to use the system is at minimum Windows XP, but may also be Windows Vista, or Windows 7. Microsoft Visual Studio 2008 and Microsoft OfficeAccess 2010 must also be installed to their devices. This two-application software were used to

Hardware Configuration:-

To be able turn the system, the minimum requirements of the hardware for this system are CPU 2.0 GHz or CPU (laptops) Core 2 CPU (desktops) RAM 2 GB RAM HDD 60 GB min 7200 RPM6 GB or at least 10 % free space (whichever is greater) The hardware used must have a competent firewall to secure the data in the system

2.7 Data Requirement

The inputs consist of the query to the database and the output consists of the solutions for the query. The output also includes the user receiving the details of their accounts. In this project the inputs will be the queries as fired by the users like create an account, selecting books and putting into account. Now the output will be visible when the user requests the server to get details of their account in the form of time, date and which books are currently in the account.

3 External Interface Requirements

3.1User Interfaces

3.1.1 Web-based Interface :-

The Event Management System (EMS) will primarily be accessed through a web-based interface. This interface is crucial for users to interact with the system and perform various tasks related to event management. Here are key aspects of the web-based interface:

3.1.2 Registration and Login:-

Users, including event organizers and attendees, will be required to register for an account. The registration process will collect essential information, such as name, email, and password. The login page will securely authenticate users, with measures like password encryption to ensure data security.

3.1.3 Dashboard:-

Upon successful login, users will be directed to a personalized dashboard. The dashboard serves as a central hub providing an overview of upcoming events, recent notifications, and quick links to essential features. This streamlined dashboard enhances user experience and facilitates easy navigation.

3.1.4 Event Creation Interface:-

Event organizers will have access to an intuitive interface for creating and managing events. This interface will feature a form where organizers can input event details such as the event name, date, time, location, and type. Additionally, organizers can upload event-related media, set privacy settings, and preview how the event information will be presented to attendees.

3.1.5 Venue Management Interface:-

The system will offer a dedicated interface for venue management. Users can search and filter available venues based on criteria such as location, capacity, and amenities. The venue management

interface will provide detailed information about each venue, including images and pricing, and enable users to initiate the booking process.

4.System Features

4.1 Event Creation and Management:

Effortlessly create and customize events with an intuitive interface, allowing organizers to input details and preview event information.

4.2 Attendee Registration and Management:

Simplify attendee experience with easy registration, while organizers manage attendee lists, track attendance, and handle registrations/cancellations.

4.3 Venue Search and Booking:

Streamline venue selection with a search and booking system, letting users filter venues based on location, capacity, and amenities.

4.4 Reporting and Analytics:

Facilitate data-driven decisions by providing detailed reports on attendance, revenue, and key metrics, empowering organizers with actionable insights.

5. Other Non-functional Requirements

1. Performance Requirements

The EMS ensures a responsive performance, with critical functions responding within 2 seconds. It supports a minimum of 1,000 simultaneous users and efficiently manages at least 100 concurrent events. The system's scalability accommodates growth, providing a seamless experience during peak usage. Ongoing monitoring maintains a minimum uptime of 99% for consistent access. Updates and enhancements are executed with minimal downtime, optimizing system efficiency and reliability.

2. Safety Requirement

The safety of the EMS is ensured through regular automated data backups, guaranteeing data integrity and facilitating recovery in case of data loss. An established emergency response plan guides organized actions in unexpected incidents. User education programs promote security awareness, reducing the risk of inadvertent data compromise. System redundancy and failover mechanisms maintain service availability during hardware failures, while an efficient incident reporting system enables swift responses to safety concerns, ensuring continuous improvement in safety measures.

3. Security Requirement

- Implement robust user authentication mechanisms, including secure password encryption and optional multi-factor authentication, to safeguard user accounts.
- Utilize HTTPS protocols to ensure secure data transmission between users and the EMS, protecting sensitive information from unauthorized access.
- Enforce strict access controls based on user roles (Admin, Event Organizer, Attendee), allowing only authorized individuals to perform specific actions within the system.
- Implement comprehensive audit trails to monitor and log user activities, enabling quick detection of suspicious behavior or security breaches.
- Conduct regular vulnerability assessments and security audits to identify and address potential weaknesses in the system, ensuring ongoing protection against emerging threats.

4. Requirement Attributes

Maintain a comprehensive code documentation system to facilitate easier updates, ensuring that developers can understand and modify the codebase efficiently.
Develop and deploy system updates with minimal downtime, allowing for smooth maintenance and continuous service availability.
Target a system uptime of at least 99%, providing users with consistent and reliable access to the EMS.

5. Business Rules

The EMS enforces a stringent event quality control through an event approval workflow, requiring admin validation before events become visible. User roles, including Admin, Event Organizer, and Attendee, are clearly defined, ensuring distinct responsibilities and access privileges. Additionally, the system mandates secure user authentication and data transmission, employing encryption and HTTPS protocols. To enhance maintainability, comprehensive code documentation and minimal downtime deployment for system updates are integral business rules.

6. User Requirements

The Event Management System (EMS) is designed with a user-centric approach, accommodating three distinct roles: Admin, Event Organizer, and Attendee. Each role is furnished with specific privileges, ensuring a secure division of responsibilities. The intuitive user interface promotes seamless navigation, granting easy access to features for all users. Attendees experience a straightforward registration process and benefit from robust profile management, while organizers find the system conducive to efficient event creation and management. Timely event-related information and interactive participation further enhance the attendee experience. Moreover, the EMS prioritizes inclusivity, adhering to accessibility standards such as WCAG guidelines, ensuring a comprehensive and accessible user experience for individuals with diverse needs.

6. Other Requirements

6.1 Data and Category Requirement

The Data and Category Requirements for the EMS aim to establish a systematic framework for data management. This involves categorizing data based on sensitivity, ensuring that appropriate security measures are applied to each category. Additionally, clear policies for data retention will be defined, specifying the duration for storing different types of data to align with regulatory and business needs. Guidelines for data migration will be developed to facilitate seamless transitions while maintaining data integrity. These requirements underscore the importance of a structured approach to data handling within the system, promoting security, compliance, and efficient management practices.

6.2 Appendix

The Appendix serves as a crucial supplement to the SRS document, offering additional context and visual aids to enhance comprehension. Included within are supplementary materials such as diagrams, charts, and mockups that provide a more detailed illustration of the EMS's functionality. Supporting documentation, such as technical specifications, further enriches the reader's understanding of specific components within the system. By housing these materials in the Appendix, stakeholders gain a comprehensive view, facilitating better-informed discussions and decisions throughout the development and implementation phases.

6.3 Glossary

- EMS (Event Management System): A comprehensive software system designed to automate and streamline the planning, organization, and management of events.
- Admin: Refers to the system administrator role, holding full control over the EMS, responsible for configuration and user management.
- Event Organizer: A user role tasked with creating and managing events within the EMS,

including defining event details and overseeing logistics.

- Attendee: An individual who registers for and attends events facilitated by the EMS.
- User Interface: The graphical or command-line interface through which users interact with the EMS.
- Data Retention: Policies defining the duration for storing different types of data within the EMS.
- Data Migration: Guidelines and processes for the seamless transition of data between different systems or storage environments.
- Security Measures: Protocols and mechanisms, including encryption and multi-factor authentication, implemented to safeguard user accounts and data within the EMS.

Thank You