Online Event Record and e-Certificate Management System

Shiburaj Pappu\textsuperscript{a}, Dr. Varsha Shah\textsuperscript{b}, Dhanashree Kangane\textsuperscript{c}

\textsuperscript{a}Professor, Rizvi College of Engineering, \\
\textsuperscript{b}Principal, Rizvi College of Engineering \\
\textsuperscript{c}Asst. Professor, Rizvi College of Engineering

\textsuperscript{a}shiburaj@eng.rizvi.edu.in, \textsuperscript{b}principal@eng.rizvi.edu.in, \textsuperscript{c}dhanashree.kangane@eng.rizvi.edu.in

Abstract: Every year many courses and events are conducted in every organization for which the organizers had to maintain the physical records of enrollment, attendance, certification of the participants. Publicity of the event required posters and brochures in the printed format for distribution. In today’s digital world publicity by electronic media (Facebook, WhatsApp and Email etc.) is much more effective. Maintaining all the data was essential but required huge amount of papers. This system proposes a “Online Event Record and e-Certificate Management System” to convert all these processes into E-processes and documents into E-documents. This software covers entire operation of conducting any event/activity from enrollment to certification. It uses electronic attendance. After the event is completed most of the times the attendees are issued certificates which are printed on paper. This system avoids the usage of paper in this too by generating e-certificates for each attendee.

Key Words: Event Management, e-Certificates

1. INTRODUCTION

Event management system includes record creation, publicizing, scheduling, etc for activities like seminars, conferences, workshops, formal parties, fairs and festivals, business and corporate events, courses, etc. Now a days, the events such as seminar, courses, workshop, technical and social events etc. plays major role as Extra and Co-curriculum activity. With the registrant and events increasing at larger rate, it is difficult to manage using traditional system such as use of spreadsheets, traditional database and more. It may involve lots of wastage of paper for publicity by medium of posters and pamphlets, managing the attendance of the attendees, printing the certificates. To overcome the drawbacks of traditional system, a new Automated Event Management System has been proposed in this paper which will help the organizers and the attendees to automate majority of the tasks during an event. With the help of this system the remoteness between attendee and organizer has reduced with the smart web access.

The proposed system will be a cloud hosted rich internet application that serves the comprehensive functionality to an event organizer. This system provides a platform to organizer to display all details related to events for all the visitors of weblink. It also provides e-certificate to the participant which is a unique feature in event management system. The database of registrants generated is useful for the organizer for the future events.

This paper is aimed at developing an application for event management system. Events such as festivals, wedding etc. have become a core part of life which has resulted in event planning and Management Company to rise. With the customers and events increasing at larger rate, it is difficult to manage using traditional system using spreadsheets, traditional database and more. To overcome the drawbacks of traditional Event Managing System, a new Smart Event Management System can be introduced which uses the modern technology for managing various tasks and planning for employees, customer, location, transport and more. Event management has a complex set of processes which involve registration, secured venue access, real time stock taking of consumables and crowd-management. A system that integrates all these requirements is scarce. Hence, there is a dire need to build an automated system which can cater to the needs of any event management.

2. LITERATURE SURVEY

2.1 AEMS: Towards an Advanced Event Management System

Authors: Paulo Cristo and Ricardo Martinho
In this paper the authors have referred to open source event management systems such as OpenConf, CiviCRM and EasyChair. These systems do not foreknow the activities, resource allocation and costs management features necessary to each programmed event element. The AEMS explained by the authors includes project management having these features. A case study is also carried out with a real-world customer to present the requirements for such features. Offered AEMS will be helpful to the customer to manage all the activities, resources and costs associated with an event which will derive the system to a generic software product.

2.2 Event Management System

Authors: Vinay Mishra, Madhuri Dubey, Priya Banarjee, Ajvita Jumle, Pallavi Raipure, Pooja Wankhede.

The Events Management system explained in this paper is a web application. It is an online event management system software which is accommodating functionality of event manager. This system permit only registered user login. New user can register on the application. The project provides most of the basic operations required for social event such as marriage, Dance Show and birthday party, etc. EMS allows the user to select date and time of event, venue and the event equipment. All the data is taken from the user is recorded in the database and against that the user is given a receipt number for the booking. The recorded data is then forwarded to administrator i.e. website owner. As per requirement admin can communicate with the client.

2.3 Review Paper on Event Management System

Authors: Mr. Krunal Maiske, Ms. Pooja Neware, Ms. Nikita Jamgade, Ms. Aishwarya Jamgade, Ms. Pooja Dubey

This paper is intended at developing an application for event management system for the events such as festivals, wedding etc. Traditional event management system uses spreadsheets, traditional database and more with which it is difficult to manage events database. To overcome these drawbacks of traditional Event Managing System in this paper a new Smart Event Management System is explained using modern technology. This system handles various tasks and planning for employees, customer, location, transport and more. Event management involves registration, secured venue access, real time stock taking of consumables and crowd-management. In this paper a dire need is described to develop an automated system which can cater to the needs of any event management.

3. PROPOSED METHODOLOGY

The process begins with the Organizer registering / creating an account in the application. The application is forwarded to the administrator for approval. If the admin approves the organizer, they can add new events to the system with the help of their accounts providing the detailed schedule, poster, brochure, etc. The link to the event is advertised to all the attendees using various electronic Medias. This software will also lists all the active events on its dashboard. The interested users will follow the link and enroll themselves to the events. The organizers can then mark the daily attendance for the topics attended by them. Once the event is over the organizer can design the e-certificate and send the certificates to the attendees through email. On successful completion of the event the user can download their e-certificate by providing the feedback for the event. Fig. 1.

3.1 Roles

The application will use a role based access control mechanism. It basically consists of the following user roles:
Administrator: This role is the owner of the software. Functions include approval of organizers, disabling expired and unwanted events, monitoring the activities of all the users, system maintenance, periodic advertising emails to organizers, backups, etc.

Organizers: This role is the main role in the system. This role adds new events to the system including their specifics like name, type, duration, venue, etc. They can make the event public or restricted to certain users. They also have the option to password protect the events so that only specific users can enroll. If the event is private then they will have the option to enroll users to the event. They can also enable & disable certain features of the event. They will also be allowed to take the attendance online with the help of the mobile ready software. They may also enable e-certificates that can be delivered to the users who have successfully attended the events.

Attendees/Users: This role acts as the users who would like to attend a specific event. They have an option to enroll to the events or if not decided they may add them to their wish list. They may download the e-certificate from their panel. They can also give feedback to the events attended.

3.2 Modules

a) Event Scheduling & Publishing Module: This module will be used by the organizers to add, edit and manage the various events. They will have option to upload basic information about the events like Name, date, duration, type of event, venue, posters and brochures, etc. They will also be able to manage the visibility of the event by making it public, private or protected.

i. Public: This event will be displayed to all users in the home page of the application. Anyone can enroll to the events.

ii. Private: This event will not be visible to anyone. Users are forbidden to enroll to the events manually. Only the organizers can enroll the users to the events.

iii. Protected: This event is visible to the public but cannot be enrolled by the users unless they are provided by a access code setup by the organizer.

All events can have a maximum enrollment capacity set so that no more users can enroll for the events. This is helpful when there are limited resources to conducted the events like workshops and seminars.

b) Attendance Module: This module will be implemented so that the attendance of the attendees may be recorded digitally thus saving paper and time. The application will be mobile ready which will help the organizers to manage the attendance using their handheld devices. Further the certificate generation can be restricted based on the attendance of the attendee for the event.

c) Feedback Module: This module will be used to take the feedback of the attendees about the event. The organizers have an option to make the feedback mandatory for generating the feedback.

d) E-Certificate Module: This module generates e-certificates for the attendees. The organizers have an option to design their custom certificate backgrounds which can then be uploaded to the system which will be used to generate the e-certificates. The system automatically does the following things to secure the certificates:

i. It will use digital signature to sign the certificates so that any attempt to change the certificate can be known.

ii. It also generates unique certificate numbers for each certificate that are generated so that the certificates can be validated.

iii. It also puts a QR Code on each certificate that can be used to validate the certificates.
e) **Notifications Module:** This module is used by the organizers to notify the users about various actions and reminders related to the events.

f) **Report Module:** The system will be able to generate a report of the event to be archived by the organizers.

g) **Enrollment Module:** This module helps the organizers to manage the enrollment of the users. These are the following ways they can enroll users to the events.

i. **Manual Single User Enrolls**

ii. **Search and Enroll:** Already enrolled users of other events can be enrolled to the current event.

iii. **Bulk Import Users:** To import users with the help of excel sheets.

h) **User Management Module:** This module is used by the Administrator to enable and block the users from using the system. It will also be used to approve new organizers to the system.

i) **Certificate Validation Module:** This module is used by the anyone who needs to validate the authenticity of the e-certificates generated by the system.
3.3 Flow Diagram

![Flow diagram of the event management system](image)

**Figure 1:** Flow diagram of the event management system

4. CONCLUSION

This application will be able to assist the organizers in all the day to day activities of organizing events and keeping all the records online digitally thus keeping the wastage of paper at its minimum.

REFERENCES


