Event Tracking System Using Web Apis And Expert System: A Review

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Abstract: - This paper is aimed to develop a system that can manage the event all over the globe. Nowadays organizing events like festivals, weddings, carnivals, etc. It is a major part of life. As time passes the number of customers and events is increasing day by day, which is difficult to manage using traditional systems using spreadsheets, traditional databases and more. To overcome this problem of managing of events using modern technology like Artificial intelligence, DDBMS, Web 3.0 services and so on. The new Event Tracking/ Management system can use these modern techs for managing and planning for customers and organizers. With the help of this technology, the distance between event organizers and event joiners has reduced and the cost for the management team is also reduced. All the tasks such as registration, event listing, gallery management, venue selection, analytical dashboard at the admin level, and resource management are also being done. It manages the crowd during the event and counts the number of participants is there. Hence, there is a need of such an advanced system which can handle all the tasks of its own.

The event tracking/management system is a web-based event management system that provides the functionality of an event manager. The system has different functionality to perform and has a separate interface at the administration level and participation level. All the data is recorded in the database and the user is given a unique identity number for the booking of the event.

Keywords: User, Admin, Event Management, Book, Database, Expert System, Web API, Framework, Language, network, Web services.

1. INTRODUCTION

The event tracking system is designed to manage all the activity that are being carried out by event. In any event, several services are working at the same time and it is difficult to manage these suppliers. It is a management system which used to study the target of budget, cost of hosting, and analysis of data before and after the event. This is an online platform that deals with different number of facilities which can perform the required task over the server which overcome some problems that comes in traditional system.

This event tracking system is very helpful in upcoming future due to increase large number of population and the event organizers are hosting their events on the large which is difficult to manage them. Event organizer is an application under the development of system which have the facility to managing the festivals or social media events like gathering, carnivals, colleges fest, events, conferences, etc. There two different interface one for **admin** and other from the **customer.** For accessing they need to register themselves on the portal given on the website. After the login, both can access the interface and perform their respective task.

2. LITERATURE SURVEY

We have studied several numbers of papers and journals based on event management system.

Analysis of existing system

First paper which we had studied named as "**Event Management Systems (EMS)"** published by **Drahsti Amrish Shah, Hemalata Vasudavan, Nurul Farfaini Razali** from *School of computing Asia Pacific University of Technology and Innovation (APU), Malaysia.* In this paper they used some tracking system that analyses the event based on their performance. The Tracking system developed in such a way where event administer events and gateway for participants to access information. It reduces the budget, cost reduction for management, less interaction of administration, less time consuming. It was developed only for Malaysia event. They used Firebase and ReactJs combining both technologies will result the web application.

Second Paper which we had studied named as "**Design and Application of Major Sports Events Management Information System Based on Integration Algorithm"** published by **Yang Wen (***College of sports Industry and Leisure, Nanjing Sport Institute, Nanjing 210014, China***) & Feng Wang (***School of Physical Education, Taiyuan University of Science and Technology, Taiyuan 030024, China***).** In this paper, they proposed a competition information system for managing the large-scale sports events organization which follow four principles: competition as a core, bundled service, balance between stability and advancement,

reasonable positioning, and moderate scale. They used Integration Algorithm which is an Artificial Intelligence algorithm, Deep Learning concept, and management techniques.

Third Paper which we had studied named as "**Project report and research on Online Event Management System"** published by Deepanshu Goyal, Arbab Ali, Md Nafis Haider of *Galgotias University*. They performed some tasks which make the physical record digitally over the online server. The purpose of this project is to make event organizing and management of records get digitally accessed and managed.

Website	Reviews
www.bookmyshow.com	Ticketing system, Refund policies, Live tracking and updates, ticket management, ease seat selection, event listing method.
www.meraevents.com	Create Event, Join Event, Event listing (live update), Approaches to 6 countries.
www.paytminsider.com	Ticketing System, Live Tracking updates, interactive seat selection. Curated Event Selection. Used AI driven technologies.

3. PROPOSED WORK

This web-based event management system can be implemented in schools, colleges, casuals hosting places, carnivals, festival events. It provides a huge scope of implementation as it can be used at different places and at global level. Places like carnivals must have advantages by using this website where organizers can manage the data of attenders.

A. Modules Description

Admin Login: Here admin can modify the information of events and checks the necessary resources required by the events like number of volunteers working etc.
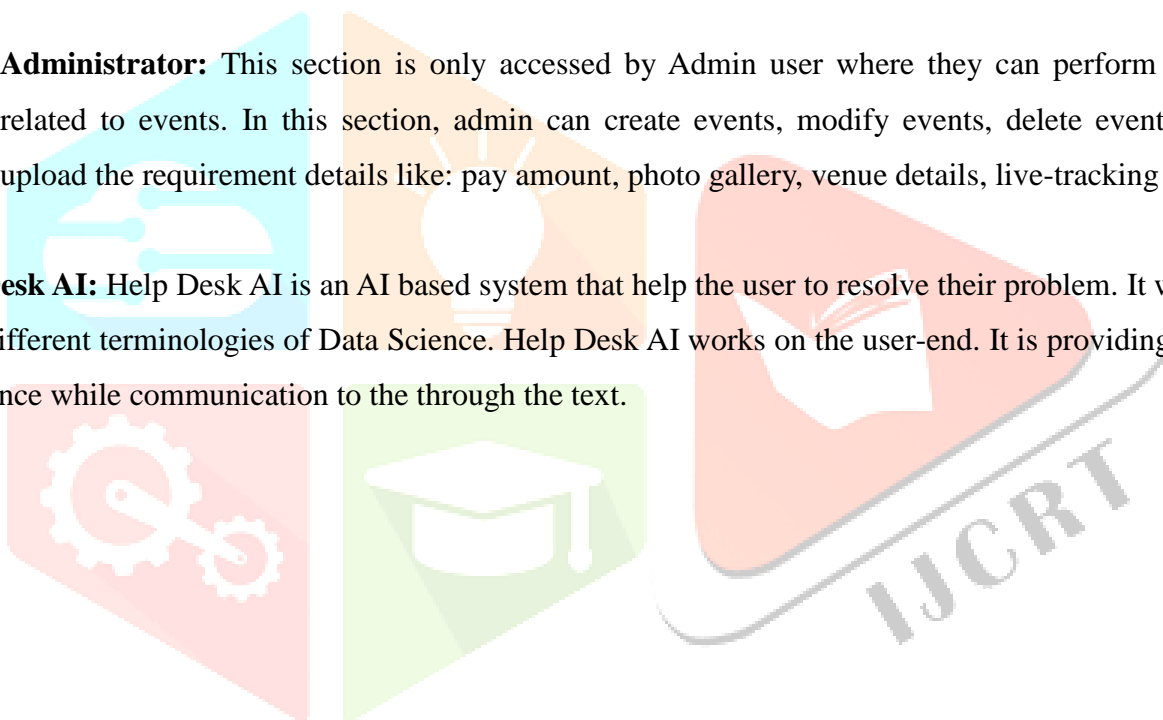
User Login: Here user can login via login portal of this event management system. After the login, user can interact with the events list and gathered the relevant details. There is a extra facility where user are willing to work as volunteer for any of the event. They just need to navigate to the specific event and after moving forward there is a section for volunteer form. After filling the form, they can work for the event.

Registration: This is a portal where user's and admin users can register themselves to access the content on the website. Every user must register before login and have to set-password. After filling the user id and password there will be the consent form to agree the terms and conditions for the website. Although admin users also need to provide their id proof, address, occupation. The registered user id and password are being stored in the database and verification of login credentials are being carried out by the same database.

Users: User Section is an interactive section of the event management system where they can see the list of events in an interactive manner. They can check the seating arrangement, venue of event, live-tracking location, available seats, book an event, volunteer section, and any other update regarding an event.
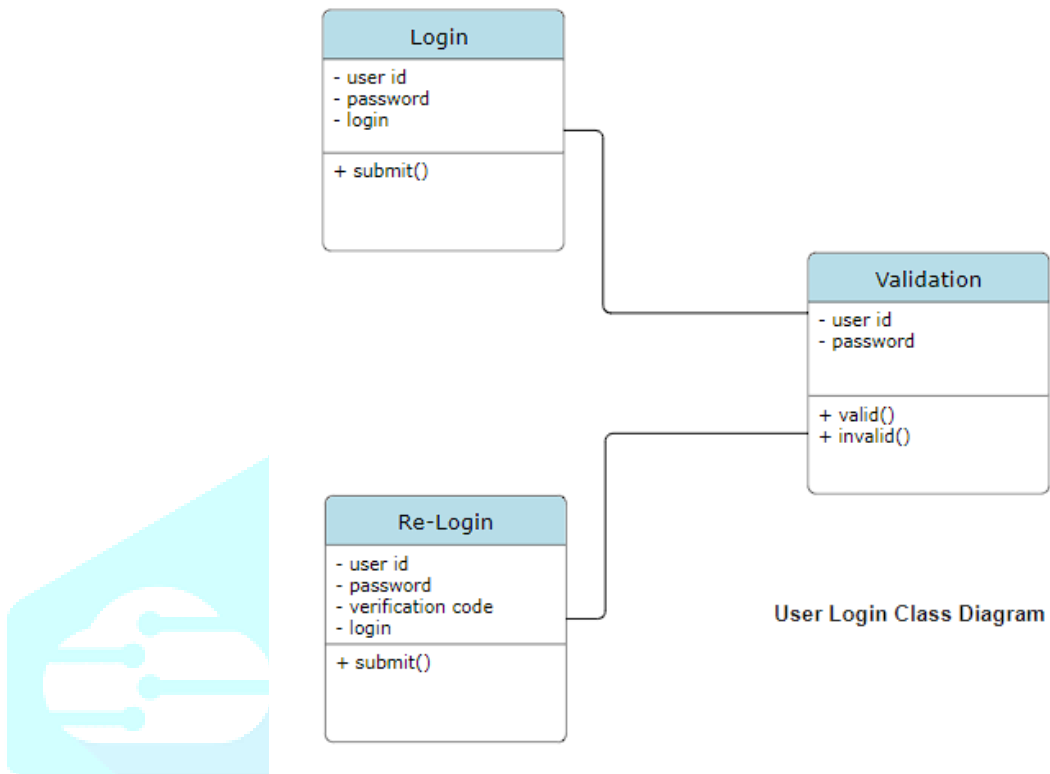
Administrator: This section is only accessed by Admin user where they can perform different task related to events. In this section, admin can create events, modify events, delete events. Admin can upload the requirement details like: pay amount, photo gallery, venue details, live-tracking mapping, etc.

Help Desk AI: Help Desk AI is an AI based system that help the user to resolve their problem. It was developed using different terminologies of Data Science. Help Desk AI works on the user-end. It is providing user-friendly experience while communication to the through the text.
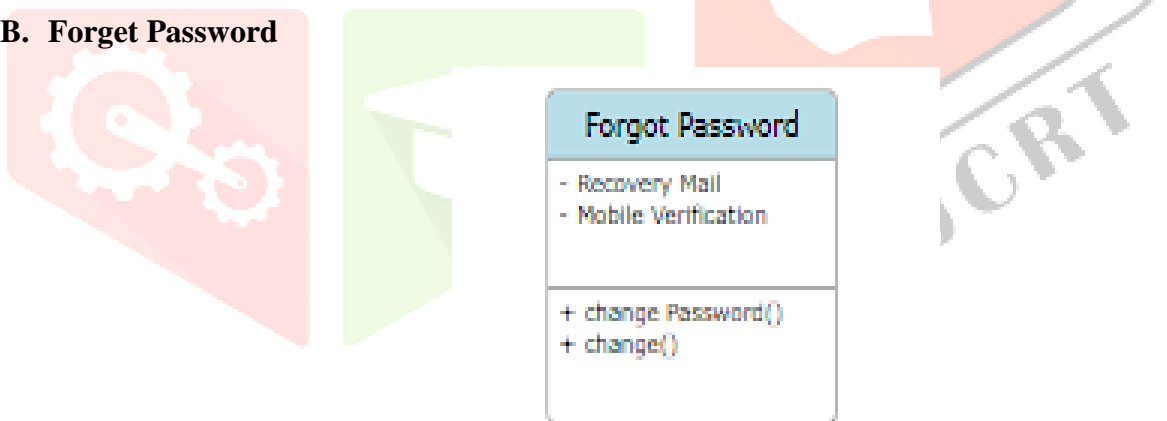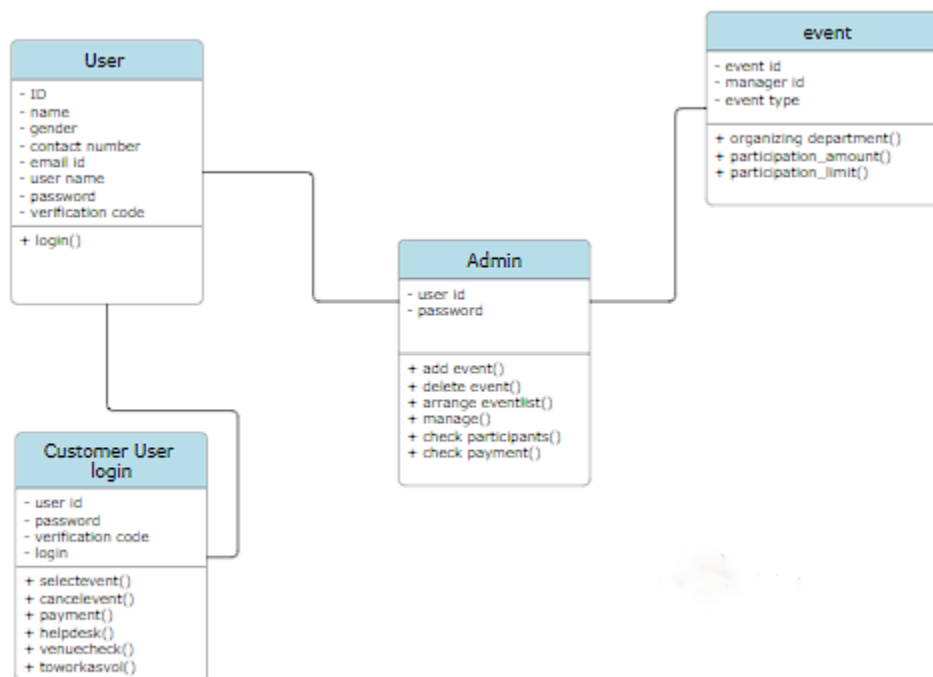
4.   CLASS DIAGRAM

A. Class diagram for logging phase

User Login Class Diagram

B. Forget Password

C. Class Diagram for Webpage execution

5.   CONCLUSION

Event Tracking System deals with different aspects of tracking an event whether they are organized on the global level or local level. This system includes different facilities that ease to management and track the progress of the event. Tracking systems are a helpful online platform that manages and analyzes event activities, making it easier to handle multiple suppliers and overcome traditional system problems. It provides separate interfaces for administrators and customers, allowing them to register and perform their tasks efficiently.

6.   REFERENCE

- Reynolds, J. (2015). PROJECT MANAGEMENT: THE 3 MAJOR PROJECT TYPES. Retrieved from Project Smart: https://www.projectsmart.co.uk/project-management-the-3-major-project-types.php
- Brown, S. (2012, May 4). What are the three key characteristics of a project. Retrieved from Projects Projects Projects:www.projectsprojectsprojects.com/project-management/what-are-three-key-characteristics-of-aproject/what-are-the-three-key-characteristics-of-a-projects
- Institute, P. M. (2008). A Guide to the Project Management Body of Knowledge(PMBOK Guide). Newton Square, Pennsylvania, USA: Project Management Institute Inc.
- Mohamed, A. (2016). Project management software-Essential Guide. Retrieved from ComputerWeekly.com: www.computerweekly.com/feature/Project-management-software-Essential-Guide [5] Lang, J.-P. (2014). Redmine. Retrieved from Redmine: www.redmine.org
- Izang, A. A; Ogbonna, A.C; Kuyoro, S.O; Omotunde, A.A & Akande, O. (2015) A Web-Based Decision Support System for Project Manager's Proficiency, International Journal of Advanced Research in Computer Science and Software Engineering, Volume 5, Issue 11, November 2015 ISSN: 2277

128X. Research Paper Available online at: www.ijarcsse.com

- Mahalakshmi, S.Gomathi and S.Krithika "Event management system" International Journal of Trend in Research and Development, (IJTRD) Volume 3 Issue 2 Page 121-123, Mar - Apr 2016, ISSN 2394-9333.

- Mr. J Nagesh Babu, Ms. Srujana J M, Ms. Srusti U M, Ms. Sushma Kulkarni "Event management system" International Journal of Engineering Research in Computer Science and Engineering Volume6 May 2019 .

- Sachin AjayKumar Pasi, Prof Altaf Taher Shah, Prof Dr Amol B Kasture A Study and Implementation of Event Management System using Smartphone IJIRMPS Special Issue - SOIT - ADYPU (October 2018). ISSN 2349-7300.

- A Khan, A Pundalik, T Shinde, S Gupta, SJ Patil "Online Event management System" International Research Journal of Engineering and Technology (IRJET)Volume: 06 Issue: 01 | Jan 2019.

- A Study and Implementation of Event Management System using Smartphone - Sachin AjayKumar Pasi, Prof Altaf Taher Shah, Prof Dr Amol B Kasture - IJIRMPS Special Issue - SOIT - ADYPU (October 2018).

- IEEE Explore Year 2017: - Event based modelling for better manufacturing systems using sensor data.

- IEEE Explore Year 2011: - Managing Event Information: Modelling, Retrieval, and Applications: Modelling, Retrieval, and Applications.

- Emma Abson (2017), Journal of Event Management, Applying competency school theory to Event Management, E-ISSN 1943-4308, Volume. 21, Pg.no:403-419.

- Amir Saleem, Davood Ahmed Bhat, Mr. Omar Farooq Khan (2017), International Journal of computer science and mobile computing, Review paper on an Event Management system, Issue-7, ISSN 2320-088X, Volume.6, Pg.No:40-43.

- Klara Trost Lesic, Kristina Brscic, Marinela Dropulic Ruzic (2017), Tourism in southern and eastern Europe, The importance of understanding Event experience, Volume.4, Pg.No:605-618.