# Event Management System Using Data Mining

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**Abstract-** *The Event Management System is a Web based Application. This system is developed to handle the Events and the functionalities in the companies and colleges. The Web Application is accessed by the admin and the users. The admin can create, edit and the delete the records in the database. The admin will collect the information and create an Event.The aim of the project is to save the valuable time of the user. And also the main aim of the project is that collecting the events from the various colleges and listing in our website. Once the user login, he can search for the event and the event details will display. The winners are filtered and e-certificate is provided. Finally the consequent best employee is suggested for an appraisal.*

## I. INTRODUCTION

The data Mining is one of the applications used to retrieve the information from the group of large sets of data. These large sets of data are stored and available in the web. Data mining techniques are used to find and extract the required information from the web pages. Data mining is also used to collect the information based on the user query from the large collection of data available in web. The data mining refers to extraction of interesting patterns or knowledge from huge amount of data. The alternative names for data mining are knowledge discovery in databases (KDD), knowledge extraction, data/pattern analysis, data archaeology, information harvesting. Mining concept states that the summary of various techniques of web mining approached from the following angles like Feature Extraction, Transformation and Representation and Data Mining Techniques in various application domains.This system is developed for the particular need of the company to carry out operations is a smooth and effective manner. The user can easily access the system and also it provides user – friendly environment. The admin will create an event and the employee/student will participate in that event. The person who wins more events will provide an e-certificate and request for further appraisals.Gathering events with information from various sources.Application that will provide event details of any college which will be either technical or non-technical.Event Management application allows only authenticated users to login. This system can be used to create

or collect events from web with event details and make them run smoothly. If the event isn't properly planned or organized users cannot make use of the events completely. This system is very effective for students.It provides ease of access.

Security measures are also needed to hide confidential data so we need the programming language which itself encrypt the confidential data and reduces developing time.

## II. RELATED WORK

For mining different forms of existence of data on web, mining strategies are used [2] Identification of keywords in the web site content is the major issue in web mining. [3] A search engine uses keywords to find a specific topic in the web. In this paper a combination of information of retrieval techniques with web usage mining is proposed in order to extract user text preferences in a website. Web mining can be categorized into three parts: 1. Web content mining 2.Web structure mining 3.Web usage mining. Web content mining is the process of extracting useful information from the contents of web documents. It includes extraction of structured data from web pages and open search pages. Web Structure mining focuses on analysis of link structure and the purpose of the structure mining is to identify more preferable documents. The web pages are representing as nodes and hyperlinks representing as edges. Web usage mining is the technique analyzes the transaction data which is logged, when the users interact with the web. Web usage mining sometimes referred as 'log mining', because it involves mining the web server logs. A web server log file contains request made to the web server [6]. Various pattern matching algorithms are compared for performance analysis [4]. Tools are used in web mining. Bixo is an open source web mining toolkit that starts with a set of URLs to be fetched, and ends with some results extracted from parsed HTML pages [7]. It enables the programmer to easily create progressed database-driven websites using scaffolding and code generation, taking convention over configuration [2].

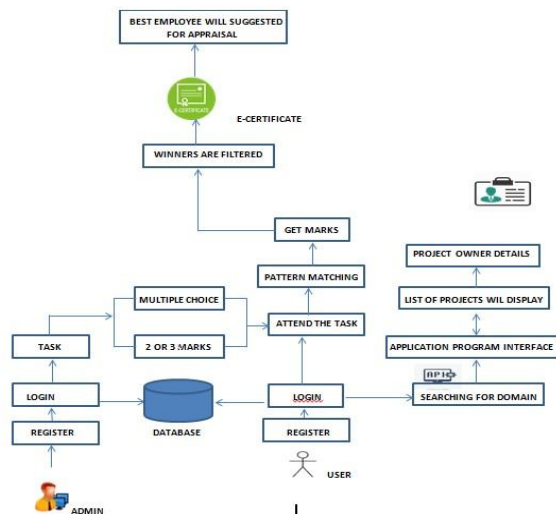## III. ARCHITECTURE DIAGRAM



**Figure 1:** Architecture Diagram

The system contains Database as shown in diagram. The system contains admin and user login. The- admin can do all operations like create an event, delete records Whereas the user can only atten the event created by admin. This system is developed to handle the Events and the functionalities in the companies and colleges.Users can give their search keywords in the search engine box. Web crawler processes the query and does filtrations as per the query and displays the search results. The Web Application is accessed by the admin and the users. In the conducted Event the Employee who wins the Event are periodically updated. At final the best Employee is requested for the further increment. Search and filter plugin is used for filtering. Users can login to see the events available for them. This system tracks all information about the Date, Time, Venue and Amount. The system will manage the information about the Employee/Student and integrate of all records. The admin will create the event the questions may be multiple choice questions or 2 or 3 marks. The user will attend the task. The multiple choice questions can be easily matched, but the 2 or 3marks cannot be easily matched. For this pattern matching algorithm is used. In pattern matching algorithm the keyword in the database and the user given words are matched. If the words are matched, the marks are allotted for the question. Then the same person who wins two or more events is filtered. An E-certificate is generated for the winning person. And also subjected for an appraisal.

## IV. PROPOSED SCHEME

The proposed system involves benefits of storing the data systematically. We are proposed pattern matching algorithm so it is used to calculate the marks for two or three marks.Staffs give the task and kept the answer.Student performs the tasks.System automatically calculates the marks. Our proposed system involves

### A) STAFFS MODULES

Staff will upload the task for student they are two modules one is multiple choice questions and another one is two marks question. It is helpful for students to learn more staff kept the answer and save in database.

### B) EMPLOYEE MODULES

Employee will perform the task before they will register and login. After that they can do that. System gives the result.

### C) MULTIPLE CHOICE QUESTIONS

In first staff will upload multiple choice question here we are use word matching algorithm. The answers are kept in the database. If the employee's answer is equal to the database answer means 1 mark is upload for the employee. Finally we got total answer.

### D) PATTERN SEARCH

Staff kept the answer in database. Here pattern search algorithms are used by this algorithm search the inside the word and we fix some threshold frequency based on the threshold frequency employee get marks.

### E) GIT HUB MODULE

In the Git Hub module, the user will search for a domain. The list of projects will display with the owner details. So the user can contact the owner for the further project details. Here the API economy is used. The information and data are collected through the Application Program Interface

## V. CONCLUSION

This drives to a conclusion that this system reducing the time of a student instead of visiting all other websites and posting the events in advance and run smoothly. And also helping the users and posting the events in advance, instead of visiting all other website. This application is very effective for all the users, so accessing the web application is very easy through the internet. In future work, various types of filtering mechanisms can be added.

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