ALUMNI TRACKING SYSTEM

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ABSTRACT

This paper proposes a alumni tracking system for alumni management which institute dependent and concentrate on alumni updates. The whole system is going to work on C4.5 algorithm which based on decision making statement with the help of respective algorithm we can easily sort the alumni. That feature will help us to get sorting of alumni according to admins requirements. This project is primarily aimed at replacing the current tracking system for college graduates and giving alumni data on college skills. It aims to build a web portal that will help college to monitor alumni updates. The main aim of the system is to overcome the drawbacks in existing traditional system and validate the gap between the knowledge and skills possess by the graduates and the required qualifications needed by industries.

Keyword : -*Data Mining, Database, Web Designing,C4.5 Algorithm.*

1. INTRODUCTION

In the current case, the Alumni database is maintained by a static college. For this reason, real-time alumni details are not available on any central platform. So there is a need for an app that can keep all college graduates in real time. The preferred application will be a web application where college graduates can update their current job status. Alumni details will be stored in the server database which will be available via the web portal to the college-administered faculty. Institutions can search alumni by their name, batch, and issue a year, Permanent Registration Number (PRN).
The proposed program will have great potential for the entire student by staying in touch with the alumni.Alumni can easily communicate with the institution through this program.

2. RELEVANCE

Gathering Alumni Information : We collect information from college authorities. We use this information to compare when alumni sign up for the alumni tracking system One of the key ways to identify what needs to be met is to create a database for its alumni. This includes collecting data from program alumni and finding out what their key job areas are in the labor market or which are their primary research fields in the school. All of this information will be stored in a database or server and will be visible to the supervisor or professor in charge.

3. LITERATURE REVIEW

As per mentioned project title Alumni Tracking System is the idea introduced by Government of Goa which is we are going to execute with the reference of Smart India Hackthon[1].

Centralized Alumni Management System (CAMS) - A Prototype Proposal Aritra Mukherjee1, Adrita Roy2, Manish Kumar Lath3, Arnab Ghosal4,Diganta Sengupta5-This paper proposes a prototype for centralized alumni management system void of institution dependence. The proposed system has a mentoring feature through which existing students can seek as a mentor those individuals who have graduated from that particular institution[3].

Alumni Tracking System by MihirJayavant, Shashank Kawle, PritiKhergamkar, ShitalGurale, Prof. Reena Somani (Department of Information Technology, Atharva College of Engineering, (Malad), Mumbai, India) Corresponding Author: MihirJayavant- Respective paper is get used for the clearing the concept of problem statement and abstract[4].
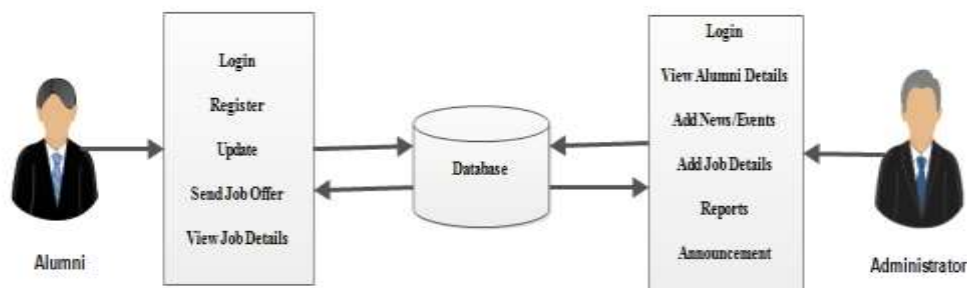
4.OBJECTIVE

1. To keep persistent records of all the college graduates.

2. To develop, encourage and fellowship among the students, teachers, senior staff of the college.

3. To allow colleges to verify and authenticate their registered alumni.

4. To validate the gap between the knowledge and skills possess by the graduates and the required qualifications needed by industries.

5. Proposed work

The D Y Patil Technical Campus, Talsande has 5 Engineering department and 1 MBA department under it. Altogether, more than 300 students that pass out from them every year either choose to option for further studies, work or have their own startups. Existing mechanism for the colleges to keep a track of the students passing out having some drawbacks. Hence, the problem is to develop a web based application for colleges to keep a track of the Alumni. The said application should have the following features:-
(a) Allow the alumni members to register themselves
(b) Allow colleges to verify and certify the authenticity of registered alumni
(c) Provision for alumni members to update their details
(d) Allow the colleges to search details based on criteria such as year, subject, etc.
(e) Send messages and emails to alumni members
(f) Security features with login for every user.

5.1 Proposed Architecture

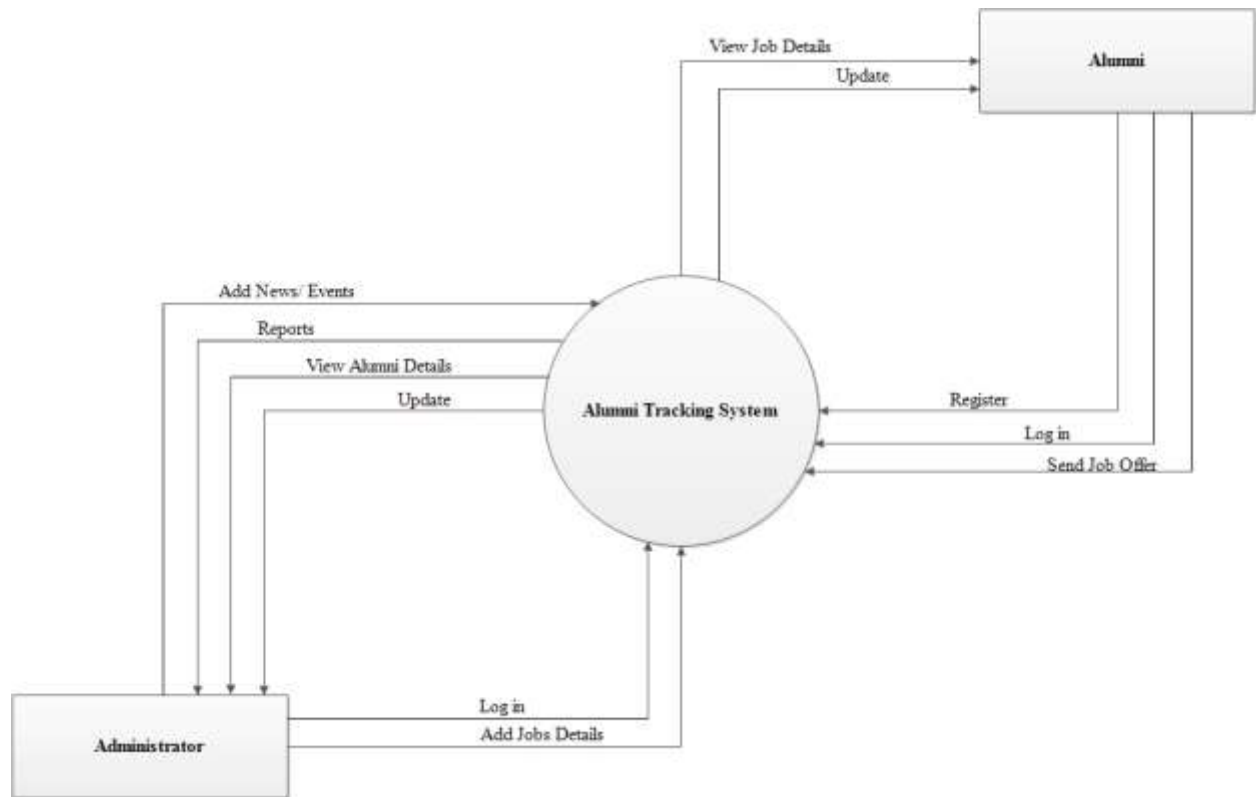**Fig.1-**Overall Architecture of system
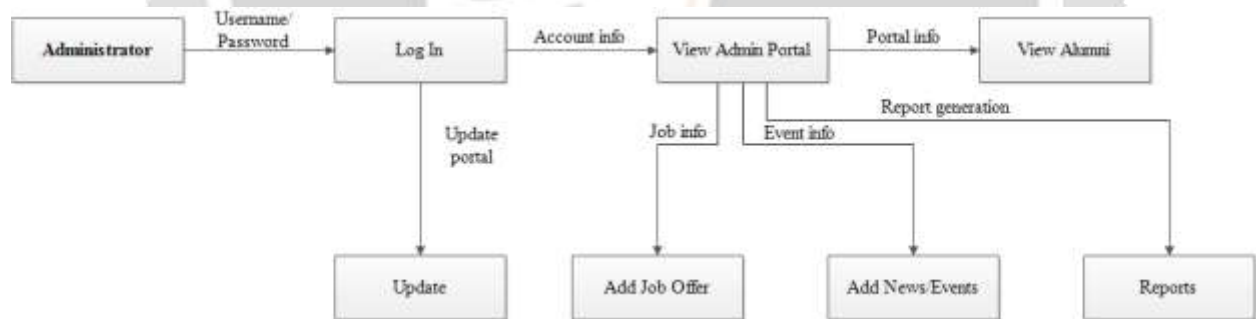
Fig.2-DFD level 0
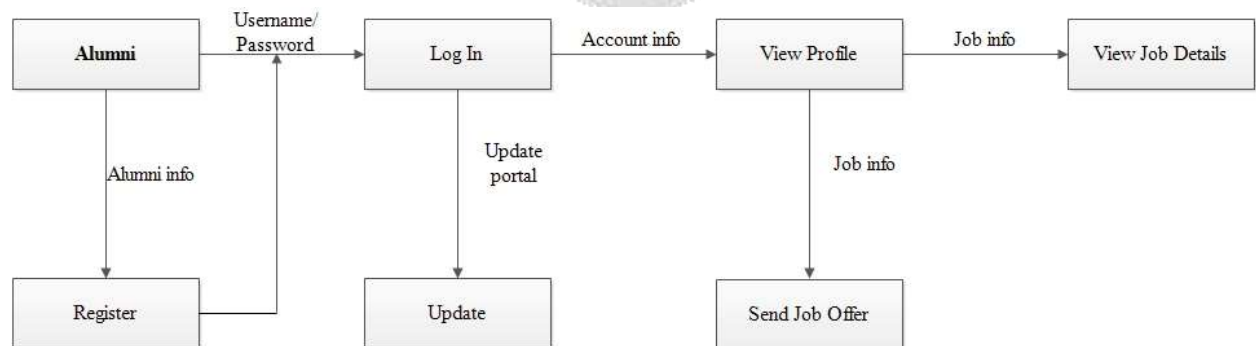
Fig.3-DFD level 1 for Administrator

Fig.4-DFD level 1 for Alumni

5.2 Implementation Steps

Index Page

Index page mainly contain two field Admin Login and Alumni Login. Respective field will have the hyperlink of login pages of field itself.

Login Page

As per choice login page of admin and alumni will get open.Login page of admin required two fields i.e   User   Id and Password. Alumni login page contains two fields login and registration.

Registration Page

Registration page is get opened when user will choose the register option on the login page of alumni. Registration page will contain all the personal details of the user and by using them new login will be created. That login is helpful for get into the system.

Home Page

Home page for the admin and alumni is going to be different. Home page of Admin will contain controlling part of the system like sending the notice,adding new admin and many more option. Home page of alumni will contain fields like personal profile, new and current working position of alumni.

5.2.1 Scope

This system can be used to keep persistent records of all the college graduates. Designed database contains all the information about alumni so that, we can validate the gap between the fresh candidates, alumni and the required qualifications needed by industries.The proposed system would enable users to register as well as generate information for the purpose of tracking all the updates about the alumni.

The problem is that the traditional knowledge management system is difficult to adapt to large alumni groups and demographics so that the presented system will overcome that problem.

5.2.2 METHODOLOGY

C4.5 Algorithm

The C4.5 algorithm is used in Data Mining as a Decision Tree Classifier which can be employed to generate a decision, based on a certain sample of data.

The more you know about the subject, the more new information you can find on it. More summary: If you know that an event is very likely, it is not surprising when it happens, that is, to give you a little detail that it actually happened.

From the above statement we can establish that the amount of information obtained is equal to the probability of an event occurring. We can also say that as Entropy increases the profitability of knowledge decreases. This is because Entropy means an event is possible.

Pruning

The Decision Tree in our original example is quite simple, but it is not so when the data set is huge and there are more variables to take into consideration. This is where Pruning is required. Pruning means the removal of those branches from our decision-making tree that we feel are not contributing much to our decision-making process.

Pseudo code:

1.   Check for the above base cases.

2.   For each attribute a, find the normalised information gain ratio from splitting on a.

3.   Let a_best be the most profitable standard for standard information.

4.   Create a decision node that splits on a_best.

5.   Re-enter the list found in cracks at best, and enter those nodes as child nodes.

6. REFERENCES

[1] https://www.sih.gov.in/

[2] IEEE reference papers

[3] Centralized Alumni Management System (CAMS) - A Prototype Proposal

Aritra Mukherjee1, Adrita Roy2, Manish Kumar Lath3, Arnab Ghosal4,Diganta Sengupta5

[4] Alumni Tracking System.

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