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# Training & Placement Management System

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**ABSTRACT**

**We are proposing a smart and easy solution for placement activities by developing software which manages placement activities with user friendly GUI. The objective of this project is to develop a system that can be used by placement cell of a college. The purpose is to design a system that provides functionalities to perform the activities related to placement services such as displaying student and company details to each other and interface for communication between company and student is our TPO. Software development is based on complete modular architecture. This modularity of the architecture will allow us to replace or add modules in the future as a way to enhance a particular feature of particular situation. This system can be used as an application for the TPO of the college manages the student information with regards to training and placement. In the present work some of the modules are implemented by means of managing training and placement data. Whereas module responsible for adopting student information, company information and study material require for company placement. Create list of students as per company HR Manager Job Request, provides the list of shortlisted students with resume to company HR Manager, Export data of shortlisted students to list file based on Search Criteria, manage student profile, set preferences for student eligibility criteria for placement, Time & Role Based Secured Access to users. Before coming for campus, company can get information about eligible students along with interested students.**

**Keywords: Resource Placement Module, Controller Placement, TPO, Task Scheduling**

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## I. INTRODUCTION

The management of placement and work-integrated learning has long been supported by paper-based systems, databases, spread sheets and E Mail communications. Unfortunately, in today's fast- moving world most of these are inflexible to changes and cannot respond quickly enough, especially during out-of-term. They are also staff intensive. Many placement web sites convey information but lack the interactive features to allow action on the information provided. The use of the Internet and the World Wide Web have revolutionised the provision of information and the facility for the user to take action on the information obtained. In our placement management system like many other p l a c e m e n t a management websites , p r o v i d e s i n f o r m a t i o n o n placement providers and the placements they offer so that students may view and assess their opporities. Individuals or activities are usually placed according ta a design or plan. The goal of the placement cell of the institute is to provide employment opportunities to students of the Institute in leading organizations/Industry. The Placement Cell further provides ample opportunities to the students to develop their personality by conducting programs regularly on communication skills and other soft skills. To achieve its goal, the Placement Cell works towards recognizing the core competencies of students. the manual work makes the process slow .In order to avoid this, training and placement managed system is proposed which includes an android application and a web based system. A web application is also provided for the ease of the students. Students who don't own an android phone can use the web link to access the system via a web browser.for the students who do not own a phone also, can use the web link to access the system from the web browser of a computer or any

device which has a web browser. The ease and flexibility of use, especially for students, placement providers and administrators, will be demonstrated using the features of the system. It works through a close knot organization and has a structure which conveys information to the students at the fastest possible rate. Our project provides the facility of maintaining the details of the students and gets the requested list of candidates for the company who would like to recruit the students based on given query.

## II. PROBLEM STATEMENT

In present system, students have to choose a specific college where the placement will be held and there is a need to maintain all these papers, causing large amount of space. Since it is manually done there are chances of missing of documents and it is difficult to handle the details of student. TPO will have to maintain all records of students and companies manually, it requires lot of paper work and thus there are chances of misplaced students that means eligible students are not getting chance to apply for company. Thus, there is a need to do this all work in digital way, so our main aim is to eliminate all paper work with one software which will keep all the records and every eligible student will get chance to apply for company.

## III. LITERATURE SURVEY

Title: Large-Scale Dynamic Controller Placement Author: Web Based Placement Management System Year:2017

Limitation: Although in this paper we have emphasized the use and the importance of the open search technique to maximize the utilization of controllers, we have also offered an alternative search technique for those scenarios in which the open search technique is not applicable.

Title: Web Based Placement Management System Author: Anjali.V, Jeyalakshmi.PR, Anbubala.R Year:2016 Limitation: This system can be used as an application for the Placement Officers in the college to manage the student information with regard to placement. Student logging should be able to upload their personal and educational information in the form of a resume.

Title: Analysis of Resource Management and Placement Policies using a new Nature Inspired Meta Heuristic SSCWA avoiding Premature Convergence in Cloud, Author: Preeti Abrol, Dr. Savita Gupta, Karanpreet Kaur Year:2016

Limitation: The framework for the cloud is proposed such that it includes the Resource Management and Resource Placement modules of cloud to solve global optimum problem of premature convergence faced by other swarm intelligent algorithm for Resource Placement in the PaaS layer of the Cloud.

Title: Design Paper on Online Training and Placement System(OTaP), Author: Mr. Nilesh T. Rathod,Prof. Seema Shah, Year:2013

Limitation: The proposed OTaP system gives the automation in all the processes like Registration, Updation, Searching .It provide the detail solution to the existing system problem

## IV. PROPOSED SYSTEM

Traditionally the job of registration was done manually by passing the registration form to the students. But this was too much time consuming and also erroneous. So, the major need was for the automation for registration by online registration by students themselves. This project is aimed at developing software for the Training and Placement Department of the College. There will be three types of user in out proposed system like student, company HR and TPO, TPO is admin of our system he can control complete software such as managing company information, student information, sending notification of company criteria to eligible students and taking follow-up from both students and companies. The only method for notification until now is by notice board which is not reliable. To overcome this problem the notification can be send by E-mail or mobile SMS.

System architecture:


## V. ALGORITHM

1. K-Means Clustering:

K-Means is one of the simplest unsupervised non-hierarchical learning methods among all partitioning based clustering methods. It classifies a given set of n data objects in k clusters, where k is the number of desired clusters and it is required in advance.

2. Naïve Bayes classifier:

By using Mahout Implementation of the Naive Bayes algorithm to build a document categorizer. The Naive Bayes algorithm is a probabilistic classification algorithm. It makes its decisions about which class to assign to an input document using probabilities derived from training data. The training process analyzes the relationship between words in the training documents and categories, and then

categories and the entire training set. The available facts are collected using calculations based on Bayes' Theorem to produce the probability that a collection of words (a document) belongs in a certain class.

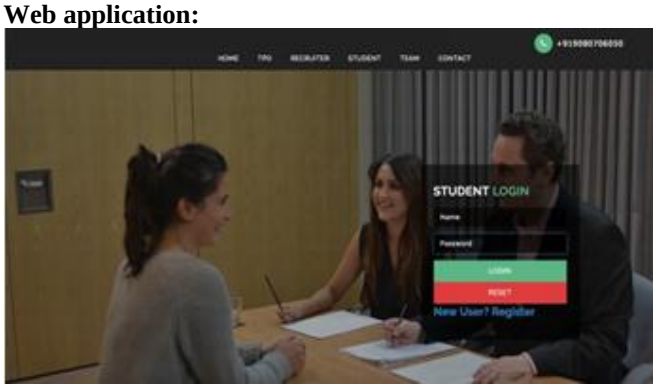
3. ID3 Algorithm:

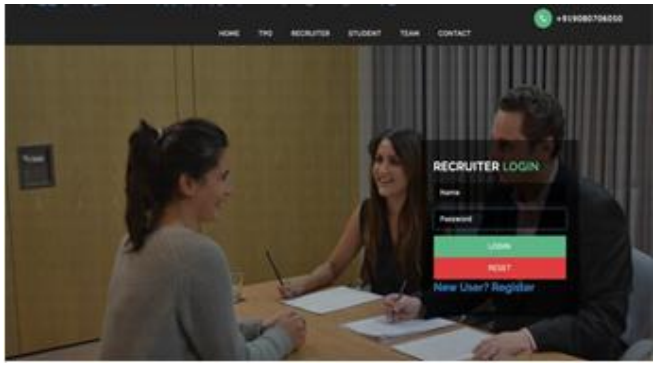
In decision tree learning, ID3 (Iterative Dichotomies 3) is an algorithm invented by Ross Quinlan used to generate a decision tree from the dataset. To model the classification process, a tree is constructed using the decision tree technique. Once a tree is built, it is applied to each tuple in the database and this results in classification for that tuple.

## VI. RESULT

**Android application:**


**Web application:**





## VII. FUTURE SCOPE

The system is designed after taking into consideration all the requirements of students and Placement and Training department but there can be improvements in some areas and we accept the drawbacks of our system. The system can be extended further to provide a forum for discussion where the alumni students and current students can discuss the events and also staff members can participate in it and give valuable advice. The Exam cell of the college can also be linked with our system so that there is no need to keep two separate systems and the database of exam cell can be connected with college database which will help in double verification of marks and other important details. Also, we can show videos of students or companies in our system. There is no single software which is considered as complete software, there are new requirements daily and those will present in future also, so we are trying to match our software with changing requirements.

## VIII. CONCLUSION

From a proper analysis of positive points and constraints on the component, it can be safely concluded that the product is a highly efficient GUI based component. This component can be easily plugged in many other systems. Also, the component is user friendly. In this paper, we try to solve the problem of student and the staff for using the training and placement details by adapting the automation of this cell. We are trying to reduce the work pressure of the staffs, provide statistics of students placed, sending notification to students about companies, easily accessible data and also easy to maintain history of company and student.

## IX. ACKNOWLEDGEMENT

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