Online Training and Placement System

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Abstract:

This technique offers students a very effective method of placement. With this method, the registration process for students is comparatively simple, and the placement officer may easily get student information. The system has quick access to the students who qualify. The system states that it will inform the kids. It gives us data on the number of students who are placed, which is displayed in the various graphs. The technology aids the college in keeping track of both current and former students. The system provides college with documentation for alumni gatherings. The timetables of all the placement-related activities can be created by the placement officer. Students who meet the requirements are automatically notified by the company .The TnP personnel and students. Since it is accessible around-the-clock, it lessens the communication gap between students and TnP coordinators and TnPs. This solution aids students and TnPs in maintaining their data at a secure portal and makes it possible to use it for additional training and employment activities. By preserving all data on a secure site that can be utilized in the future, it minimizes paper effort. It also offers a single default form that incorporates company counts and information to assist TnPs with future placement operations and retain records of all referral companies.

Keywords- Smart Phones, Android Application, Android Studio, Sublime Text Editor

Introduction:

The Training and Placement system is an online programme that connects students and firms visiting the college campus or recruiting, and thus all TnP activities are carried out. This site assists college students and TnP professionals. Colleges have notice boards that convey information about placements and other events. However, currently, social media is the sole avenue to obtain information.As a result, students will not be able to obtain all placement-related information within the time frame specified. This portal assists and plays a critical role in bridging the communication gap between students, student coordinators, and TnPs, as well as providing timely notice of placement-related information. Students can save information on their schooling, careers, and skill sets in.

Problem Statement:

Students must choose a specific institution where the placement will take place in order to save all of this information on paper, which takes up a lot of space. It is done manually, there is a chance of mistake, and managing the student's information is difficult.Today's students apply to college in quest of a higher education as well as a better future placement. The placement is critical for both the student's career and the college's reputation. There are higher risks of error on the existing training and placement site, and gathering and updating all student information as needed takes time, especially as more students register or login into the portal.

While seeking for alternative training platforms, we are offering aptitude and interview preparation training where each student can access all of their aptitude and interview preparation knowledge on one platform.
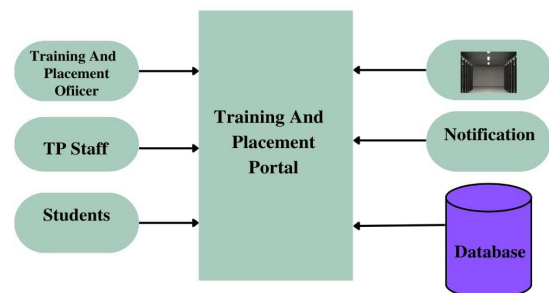

Fig.1.Flowchart of training and placement portal

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Literature Survey:

Based on the activities taking place at the institution, the placement officer sets the schedule. The student will finally be allowed to view the details of the exam and the recruitment status. A system with a modular architecture that offers numerous occupations for carrying out placement-related tasks we can add or delete commuters from this system in the future depending on the conditions needed for TnP. [1]

The institution's TnP provides a general overview of the current system, which is entirely manual. The commander should consult every document when analyzing the results. The current method has many drawbacks, including the requirement for human interaction in all tasks, which increases the likelihood of mistakes. [1]

We'll be employing various data mining algorithms to analyze so that we can make wise choices based on the facts. a web-based positioning tool that makes for a single registration that cuts down on paperwork for the kid. The placement officer instructs the student's placement information as an appliance that may be used by organized authorities with the correct login information for the student. [2]

A reciprocal training and placement system that automates the process offers numerous opportunities to improve the selection rate. This system cares about employment openings for students in many fields, encourages them to apply to those postings, and helps various organizations hire students straight out of college while also keeping tabs on their development. It can provide the list of students who made the cut based on the requirements of HR and their various standards. [3]

The administrator has 4 users, including students, TnPs, and HODs. Company Each user offered unique features and levels of security. Additionally, TnP can look for suitable students using company data. TnP can communicate with the student in an open forum while meeting the criteria and producing the report. [4]

The analysis in this paper's main goal is to narrow or close the growing gap between graduate students and the job market. The research looks at various job training programmes offered on college campuses in an effort to shape our students into marketable human resources. The article also seeks to figure out how students should be actually encouraged to apply the lessons learned on college campuses to actual placement interview rounds.

Thirdly, for successful placements, these training methods strive to connect or establish a balance between students' academics and industry expertise. If these distinct and cutting-edge training techniques are used, even educational institutions can enjoy the success of their USP who work on their campus. [7]

A final year student who provides complete information about the student in the college allows us to influence numerous disputes, such as managing the records of thousands of students and determining which students are eligible from those thousands of records for assignment purposes list companies that are visited to the collage for allowing the student to attend. [8]

A college placement system is developed to automate the matriculation procedure and produce a list of qualified students for obligation. The student who is qualified can register through the portal and update their personal information, including their resume, which the placement director can access and view. [10]

A search function is included which permits the students to see simply the status of their training and placement. Students can update personal and academic information such as their email address, the current semester, their correspondence address, and their grades across various semesters. a functional line of contact using modern technologies like email and SMS between the training and placement department and the students. It is helpful to have the most recent information on the companies visiting the campus. [11]

Analyzing the student's strength and weakness in order to develop a commitment that will be effective for the educational institution's training and placement activities based on the student's query-specific report for various companies' recruiting. [12]

Scope of Project
By delivering timely campus alerts, this portal aids and plays an important role in bridging the communication gap between students, student coordinators, and TnPs.
- This site sends students notifications about the campus completely automatically.

- Students can keep information regarding their education, careers, and skill sets in this site.

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- TnP employees will have access to this information.

- Simple management and collection of student data.

Objective

- The project's major goal is to handle the details of training, placement, student, CGPA and technical skills.

- Since the project is entirely created on the administrative end, only the administrator is guaranteed access.

- The project's goal is to create an application programme that will lessen the amount of manual effort required to manage training, placement, placement cells, and students.

- Manage information by displaying training and student information in the description.

- To improve the efficiency of handling a training and placement activity.

- While looking for alternative training platforms, we are providing training for aptitude and interview preparation.

Methodology

- Outlier

An outlier is a data object that differs significantly from the other items, as if it were created using a distinct process. There are data items that deviate from the data's regular behaviour or model. Outliers are data items that deviate considerably from or contradict the rest of the data. Outliers can occur as a result of measurement or execution errors. Many data algorithms try to minimise outliers or decrease their influence to a bare minimum. Outlier mining is the fascinating data mining task of detecting and analysing outliers.

- Bayes Theorem

The Bayes theorem determines that the likelihood of one event happening is equal to the likelihood of another event already occurring. Bayes Mathematically, the theorem is written as $P(A/B) = (P(B/A)\ P(A))/(P(B))$, where A & B are events and P(B) does not exit 0.

- Naïve Bayes classifier

Utilizing Mahout Using the Naive Bayes algorithm, a document classification system is built. A probabilistic classification algorithm is the Naive Bayes algorithm. It uses probabilities derived from training data to decide which class to assign to each input document. During the training process, the relationships between words in the training documents and categories, then between categories and the full training set, are examined. The chance that a group of words (a document) belongs in a particular class is calculated using calculations based on the Bayes theorem and the given information.

Proposed System

The system's purpose is to fully automate training and placement, including capabilities such as screening students based on averages, SMS notification delivery, and report preparation based on data from past placements. TnP heads can also add events.

The initiative gathers all essential TnP information in one place, making it easy for students to access.

Proposed Modules

- Student module:

The initiative gathers all essential TnP information in one place, making it easy for students to access.

- TnP Module:

The administrator of this system is Admin. He is able to upload the student's necessary materials.

- Preparation Module:

The key reason for developing this module is that students today are looking through several websites to get ready for campus.

- Company Module:

This module's primary goal is to offer students with all contact information for companies who will be providing placement projects in this part.

Future Scope:

The system was designed with all of the demands of the placement and training department and students in mind, but we recognise that there is always potential for improvement. The system may be expanded to include a discussion forum where alumni students, current students, and staff members can participate and provide informed feedback on current events.There is no need to have two separate systems because the test cell's database may be linked to the college database, allowing for double verification of grades and other important information. The college's exam cell can also be linked to our system. In addition, we may display students or corporations in our database. As new needs develop on a daily basis and will continue to do so in the future, no single piece of software can be considered complete. We work hard to adjust our software to these changing demands.

Conclusion:

This programmed is extremely user-friendly and safe, and it is easily accessible to all authorized users. Everyone has always struggled to match the increasing demand for comfort and access to all information in one area. The debut of this web-based training and placement platform aims to make life simpler for students and administration by providing an alternative to the present system in use. The straightforward functionality and accessibility of this portal will make managing the allocation procedure during the placement period a breeze. We may soon see a strong demand for these gateways and the convenience they will bring to everyone's lives.
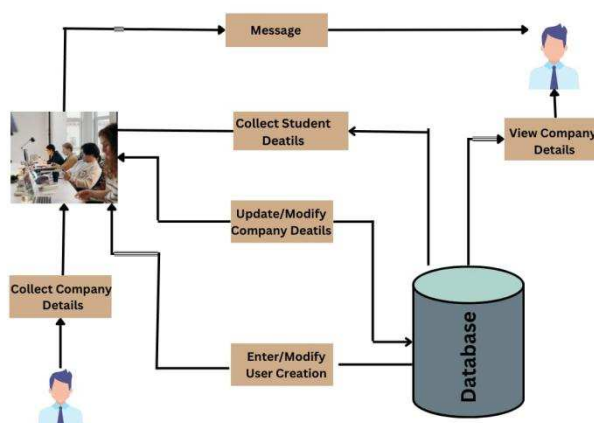

Fig.2. Data flow diagram of training and placement portal

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