

PLANNOVA -PLACEMENT MANAGEMENT SOFTWARE

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Abstract - The aim of this project is to develop a system that can be used by placement department of colleges. The purpose is to design a system that provides functionalities to perform the activities related to placement services. It allows the Training and Placement department to view and manage the company details, student details and will also be helpful in fast placement related activities in the college campus. PLANNOVA is the bridge between the students and businesses that visit for the recruitment process so that all PLANNOVA information and activities are relevant. By automating critical PLANNOVA tasks such as storing student information (including student's personal information, academic performance, business requirements, training sessions, schedule of interviews, planning seminars, etc). This program aims to reduce human resources and error. PLANNOVA, a cloud-based system, provides more security to the data, ensures data accuracy, reduces paperwork and saves time. It makes information flow efficient and paves way for easy report generation and is cost effective.

Author Nilesh T. Rathod in his work titled "Design Paper on Online Training and Placement System (OTaP)" states that The OTaP system gives the automation in all the processes like Registration, Updating and Searching. It provides the detailed result to the being system problem. The system is meant to give further easiness to the users that they can add and retrieve information so quickly. There are substantially three types of end users: administrator, student and recruiter. The administrator is the master user; he gets the greatest number of precedence than the other users. The different functions involve in case of an administrator are updating and approval. The administrator can view and approve the various application forms. Students can register and view the details. The recruiter can view the details of the students and can approve or reject their applications.[1]

"Campus Recruitment Management (Online) System" - Mrunali Mehar, Simran Dhoke, Aparna Chahande, Mrunal Lambat - In this system, it makes successful login to system. The authorized person can register. Admin can check the list of eligible students according to the criteria and can also see the student information and validate it. System generates the student list on the basis of company criteria; company details can be provided to the user. The big problem of sorting, updating and searching student data and notification is provided in this system. User can directly view the jobs, which are posted by admin. The system consists of three main modules namely student module, Company model and admin model. The big problem of sorting updating and searching student data is being handled. It contains list of companies with all details like job location, salary, job title and eligibility criteria.[2]

"Android Based Training and Placement Automation" by Tejashri Gosavi - This system reduces the human efforts and maintains large quantum of data efficiently. According to company criteria TPO enters the requirement of company and according to that the list of eligible students gets displayed and TPO notify them. Observing and controlling the progress of the selection process and communicating with different eligible candidate via SMS or Email notification. For accessing the data on android platform JSON is being used. Online forums are through which students can interact with TPO or other students. Shortlisted students get notification with the help of this system.[3]

1. INTRODUCTION

In the current scenario, campus recruitment services are provided by almost every college. During online drives, a lot of information must reach to the students in quick time. This causes stress to the students as well as the placement officers. When campus selections are conducted, the students are required to submit their details to the placement office to be able to apply for the hiring process. This routine process is maintained manually, like gathering student's details and shortlisting eligible students based on company's criteria. Traditionally, all important information is displayed on the notice board which results in many students not being able to get the information within the stipulated time limit. Moreover, students manually submit their details, thus there are chances of errors or students failing to update their information on time. Hence, there is a requirement to digitize the system to reduce the chances of error and provides higher efficiency.

2. LITERATURE SURVEY

A former survey conducted in this field was taken up to understand the tools being used and their effectiveness.

“Placement Management System” by Farheen Taqi Rizvi, Naushin A. Khan, Saurabh Upadhyay, Sonali Suryawanshi, Shiburaj Pappu - Placement Management System focuses on the automation of the placement cell. The system consists of two major modules namely Student and Admin; each module has a different set of tasks. student's data is maintained on the database. It facilitates the placement officer to review the complete data, sort the data according to the percentages, and delete unnecessary data, Sorting and searching for information as per requirement is also done.[4]

4. METHODOLOGY

Fig 4.1 shows the data flow for the system. It shows the flow of working for the admin (placement officer) from logging in to generating student report. It shows the features accessible by admin to use the system easily. After logging in to the system, the officer can view student details (uploaded on the system by extracting it directly from the .csv files), upcoming company details, drive details. Also, the admin has the features to generate report based on the selection of students for the given company.

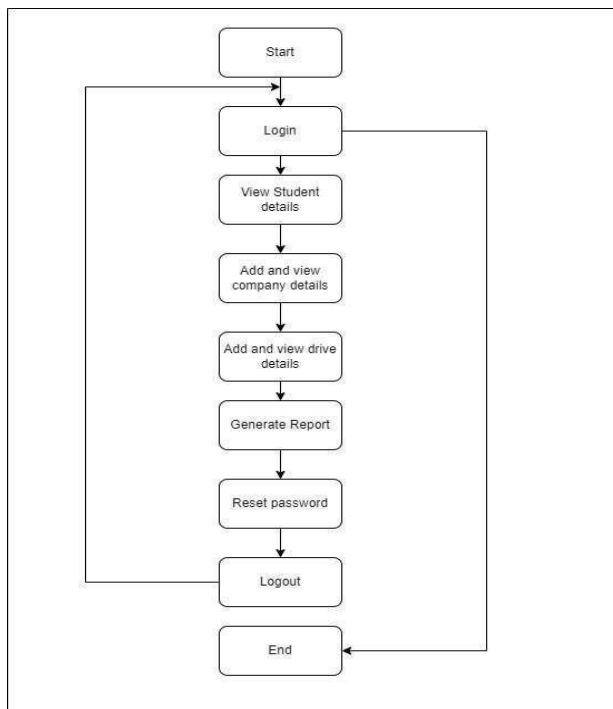


Fig 4.1 Plannova Workflow Diagram

The following shows the flow of Plannova:

- Admin will provide login credentials for logging into the system.

Following functionalities will be provided to the admin as shown in the fig 4.1.

5. USE CASE DIAGRAM

Usecase diagram for the proposed system is shown in fig 5.1. It shows all the functionalities available in the system.

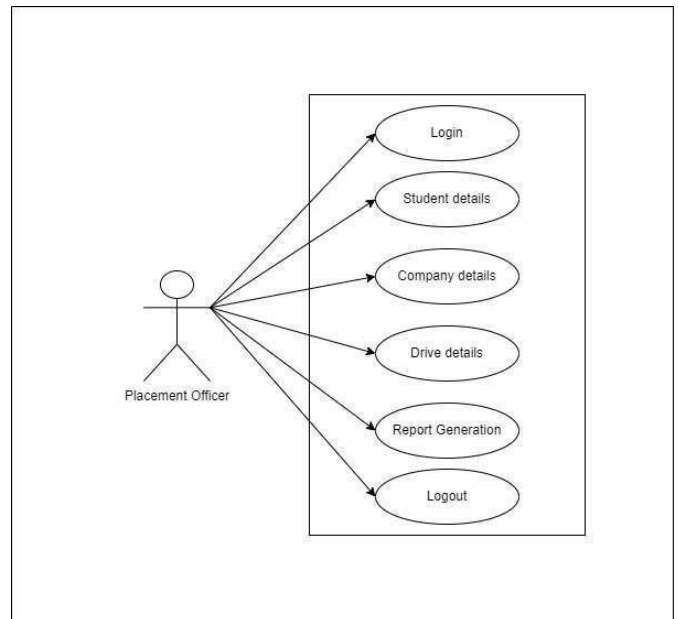


Fig 5.1 Usecase diagram

6. MODULE DESCRIPTION

1.1 PLACEMENT OFFICER (ADMIN)

Plannova will help the training and placement department of colleges to automate the various placement activities in a smooth manner. In order to do that, Plannova has been designed for the efficient and orderly flow of the various activities at one place. Plannova helps the officers by giving them various features such as viewing all the student details which are uploaded to the system by extracting from the .csv files.

- **Extraction from excel sheet:** In this method an entire excel file is uploaded to database directly. Admin can select excel file from the storage. To upload it to database a standard file format needs to be maintained with all the student details provided by the various branches. Excel should not contain the header row.

It also gives the freedom to add and view the upcoming company drive details and set the eligibility criteria according to the requirements of the coming company. Also, it provides a form for the company details to be filled with various input fields focusing on various factors for the

greater detail of the upcoming company. Plannova provides the officers to view the eligible student list based on the criteria for e.g., number of backlogs allowed, CGPA acceptance etc. provided by the different companies. Also, after selection of the students, officer can approve them and mark them as placed in the given company. A feature of report generation has also been given to the training and placement department by Plannova, where they can generate the list of students placed in the given company. Also, one can reset password as for the enhanced security. Admin will be able to login in their account using their credentials. After logging in user can manage all the operations on Applicant, Job, Company Drive. All these pages such as view student details, view company details, add company details, approve students, report generation are secure, and user can access these pages after login. Various objects in all the entities of the system interact over the course of the sequence, and user will not be able to access this page without verifying their identity.

3. CONCLUSIONS

In the existing system most of the work is done manually, as it takes more time for any changes in the system. The major problem with the existing system is addressed in Plannova. Collecting and managing data at one place and mainly reducing the man hours. The proposed system Plannova – placement and training management system automates all the major processes of campus recruitment.

Application has fulfilled the following functional requirements:

- User Authentication
- Admin access to view student details
- Admin access to add and view company details
- Admin access to add and view drive details
- Admin can sort out the students based on their eligibility.
- Generate and view the report

Further the application has met the following non-functional requirements:

- Performance: Performance of the system is less than 2 seconds that is it takes less time to respond for user's action.
- Scalability: The system can store up to 2000 student details.

- Responsiveness: The system is responding properly for all the features.
- Security: Admin is provided with username and password credentials.
- Reliability: System is reliable to the admin for smooth and easy operations.

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