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Campus Drive Management System and its Data Visualization

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Abstract: ***Nowadays the campus drive information such as students and organization details are managed manually. The purpose of a campus drive Management System is to improve the current system. It offers a user-friendly interface. The proposed system helps students to get their desired job based on their eligibility criteria and Companies can filter the students based on their requirements. Administrator will have clear picture of number of jobs opening, and the number of students applied and the shortlisted candidates. This project allows students, companies, and administrators (TPO) to keep track of their information. It will reduce paperwork and make full use of the setup and organization's capabilities, With the right login, it can be accessed throughout the enterprise. The proposed system also manages the details of the Student and Placement Cell which reduces the manual work, time and display the data visualization.***
Keywords: TPO, formatting, style, styling, insert (key words)

I. INTRODUCTION

The "Campus Drive Management System and its Data Visualization" is created to combat the system's high unemployment rate among graduates. The application serves as a link between students and the company. The user does not require any complex knowledge to use this system. As a result, it demonstrates that it is user friendly. The purpose of the campus drive management system is to keep track of student, corporate job, and vacancy information. A student login, a corporation login, and an admin login are all part of the system. Graduates and graduating students will benefit from the project. The goal is to provide services to both the Employer and the Graduate. Various companies post job openings through this system.

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II. USE CASE DIAGRAM

A use case diagram in the Unified Modelling Language (UML) is a kind of behavioral figure defined by and derived from a Use-case analysis. Its objective is to present a graphical visualization of the functionality generated by a system in terms of actors and any dependencies which are present in those use cases. The main use of use case diagram is to show what are all the functions performed by a system

The first actor in our project is admin he can these actions

1) *Login* – This is the page where the system administrator enters their credentials to obtain access to the administrative side of the system and we have used bcrypt [2] algorithm for passwords.
2) *Manage Student* – The admin can use this page to add, update, sort, and delete students or their information.
3) *Manage Company* – An admin can use this page to add, make partial changes, and delete companies information.
4) *Job Post Management* – An admin can add, make partial changes, and delete job post details on this page.
5) *Manage Applied Jobs* – An admin can use this page to see which student has applied for which job role
6) *Manage User* – An admin can use this page to add, update, sort, and delete user's (admin, student, company) information.
7) *Change Password* – This is the page where an administrator can secure their account by changing their own password

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The second actors are companies and they can perform these actions

a) *Login or Register* – In this page a company's user can create their own account by giving basic information and after registering they can login at any time using login credentials and we have used the algorithm [2].
b) *Posting Vacancy* – In this a company can post a vacancy for the students, by filling out the vacancy form
c) *Updating Vacancy* –In this page a company can make changes in their posted vacancy
d) *Selecting Students* – In this page a company can check how many students have applied for the vacancy and who all are eligible and select the next process
e) *Delete Vacancy* –In this a company can remove their vacancy post.

The third actors in our project are students and they can perform all these actions

- *Login or Register*– In this page a student can login into his existing account or create a new one by giving basic information and we have used the algorithm[2].
- *View Profile* –In this page a student can view their own profile a check for any modifications.
- *Update Profile* – In this page a student can update their own profile if there are any mistakes.
- Apply for job vacancy –in this page a student can go through the list of vacancies posted by the company and apply for eligible post.

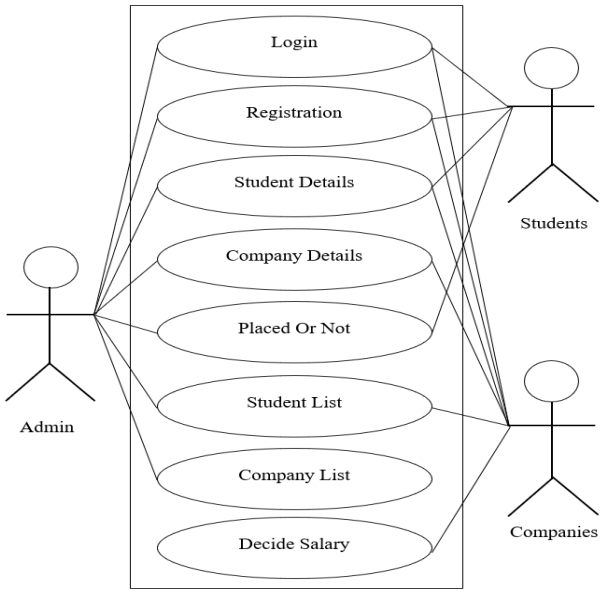


Figure 1. Use case diagram for campus drive management system and its data visualization

III. DATA FLOW DIAGRAM

The content level DFD is provided to have an idea of the functional inputs and outputs that are achieved through the system. The system depicts the input and output standards at the high level of the systems existence.

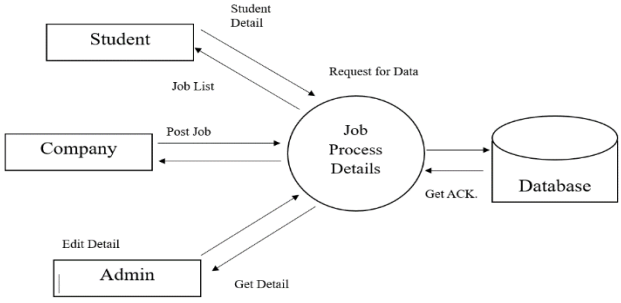


Figure 2. Data flow diagram for "Campus drive management system"

IV. SYSTEM WORKING AND OUTCOME

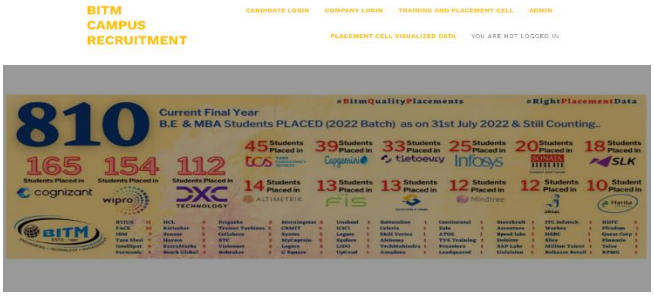


Figure 3. Home page of the project

The above image is the home page of our project which consist of login page of admin, student, and company and information of our college placement cell and a page for visualized data of the students



Figure 4. Admin's website

The above image shows the website of admin who has authority to add, delete, and manage the students and companies.

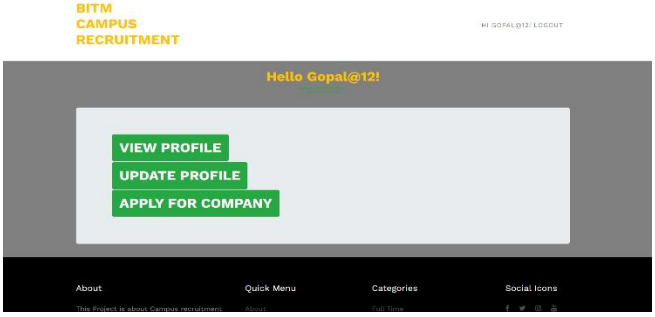


Figure 5. Student's website

The above image is student's website where a student can view and update his profile and check for job vacancies and apply them according to their eligibility.

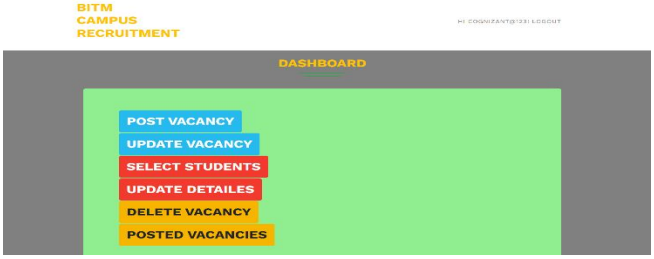


Figure 6. Website of Company

The above image shows the website of a company where the company can post a job vacancy, select students who have applied, update posted vacancy and delete the posted vacancy

V. DIAGRAMS AND KEY WORDS

1) Abstract of the paper
2) Algorithm name
- UML -Unified Modelling Language
- TPO - Training and Placement Officer
- DFD - Data Flow Diagram
- Figure 1 – Use Case Diagram for the Campus Drive Management System and its Data Visualization
- Figure 2 – Data Flow Diagram for Campus Drive Management System and its Data Visualization
- Figure 3 – Home Page of The Project
- Figure 4 – Admin's website
- Figure 5 – Student's website
- Figure 6 – Company's Website

VI. LITERATURE SURVEY

Below mentioned are the references made to create the paper on Forest fire prediction.

1) Mr. Nilesh Rathod gives the idea of the existing system, all operations are done manually. The administrator should refer all the records preserved years ago to simply know the number of users increased. There are many limitations for the existing systems. All the work done at ACE are by humans due to which there was maximum chances of errors.

2) Navaneeth Kumar B is proposing a Student Analysis System that gives students a performance report for analyzing student strengths and weaknesses in various company's recruitment exams. Various techniques are used in the system to minimize the work of the Training and Placement Department. The student information, which is available in the portal, can be shared with the various recruiters based on the eligibility criteria, skills, and requirements of the company.

3) Mulla Kajal proposed mobile centered learning system (ICCCA) It is a web-based application for the placement department that runs on the Windows operating system. Student's information is stored in the database for the secure login makes their recruitment process easier. The system stores the relevent data. respecting the pupil's information.

4) Rupali Komatwar explains how to solve a problem that is present in an existing manual system. The search and update of student data is a big issue in the current manual method. Also, filtering the list of students based on the criteria of the campus drive would be tough for the training and placement officer.

5) Sanket R suggested a system that comprises of activities such as data registration, updating, and searching. data from students the administrator is the most powerful user. Admin has a greater number of priorities than the rest of the team. The rest of the users Students can register and access or amend their academic or personal information. The administrator will also keep a list of students who have been placed.

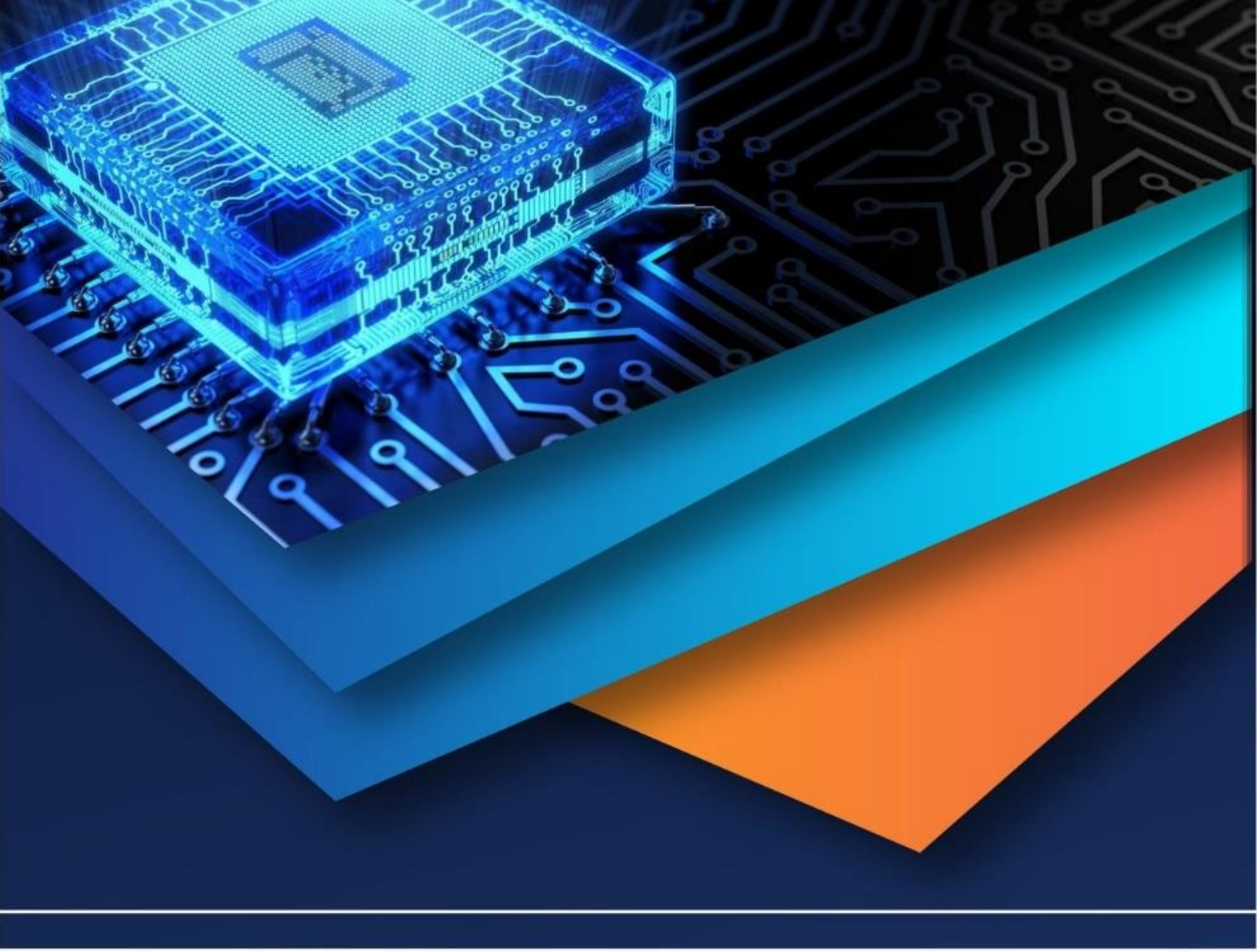
6) Ahmed Alkilany basically focuses on collection and maintenance of student information. The creation and management of accurate information regarding student academic careers is critical for students and for the faculties and administration of Sebha University in Libya and for any other educational institution. A student information system deals with all kinds of data from enrollment to graduation, attendance record, payment of fees and examination results to name but a few. Data to be made available through an Online Interface.

7) Luan's paper for data mining provides easier ways to handle data of students. The interface between student and administer is maximum which makes the system time consuming. students created and submitted their resume early in the year. lists had been produced for each company, and the students had to frequently travel to review the notice board. The process was slowing, valuable academic time was diverted from activity That is more useful at ACE the record was stored in modified, excel sheet hence sorting is a problem. The excel sheets were less optimized example: suppose we want students having 2 Backlogs then the student with 0, 1, 2 Backlogs were select whereas required result is only of 2 Backlogs.

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