Placement Application for Department of Commerce with Computer Applications (Navigator)

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Abstract:- The project's goal is to provide a proposal for **"DEPARTMENT** the college's PLACEMENT APPLICATION". The system is an application that, with the right login enabled, can be accessed and used efficiently across the entire organisation. The college's **Department Placement Coordinator and Placement Cell** can utilise this system as an application to manage student placement data. Students who log in should be able to upload a résumé with their personal and academic details on it. This project's primary feature is its one-time registration capability. The ability to keep track of student details is something our project offers. It lowers manual labour and paper work, which saves time. MYSOL is used for the backend and PHP is used for the front end of this project. This will give both the officer and students an placement accurate communication channel and reduces repetitious work that has to be carried out.

Keywords: - Application, Placement, Reduce Manual Work.

I. INTRODUCTION

The "NAVIGATOR" initiative aims to address issues including inconsistent and unclear operations, as well as delayed processes caused by manual labour. An online system for managing student placement is suggested as a means of avoiding this, as it allows for the effective management of student data within the college. It promises to preserve the student's information while facilitating quick access to procedures for placement-related tasks. Students should be allowed to upload their academic records and personal data upon checking in. The ability for one-time registration is this project's primary feature. Students can construct their own profile and upload information into the aforementioned software. system using the The administrator can review every student's information and delete invalid accounts. This system also includes an administrator login through which visiting companies can access the resumes and a list of all the students in that department. Students can see a list of companies that have posted job openings through this software system. The administrator may restrict and remove any information that isn't related to college placement guidelines, and they have complete control over the system. This system manages student and business data and presents it to the appropriate parties. The administrator can delete inaccurate accounts and review every student's information. This system also includes an administrator login through which visiting companies can access the resumes and a list of all the students in that department. Students can browse a list of companies that have posted for interviews thanks to this software solution. The administrator can censor and remove any information that isn't related to college placement guidelines, and they have complete control over the system. This system manages student and company data and presents it to the appropriate parties.

II. REVIEW OF LITERATURE

Tejaswini (2017) "**College Training And Placement System**" The system focuses on automation of conventional training and placement management system. This system can be used as an application for the Training &Placement Officers in the college to manage the student information with regard to placement and providing assistance using the assistance portal where students can post their query to the TPO and coordinators. Providing Student login helping them to update their personal and educational information in a form which will be added to the database and upload a resume and providing them with preparation materials for placements.

Shilpa Hadkar, Snehal Baing, Trupti Harer, Sonam Wankhade, K. T. V. Reddy, and I. T. Department Padma bhushan Vasantdada Patil Pratishthan's College Of Engineering. Sion (East), Mumbai. **College Collaboration Portal with Training and Placement".** The project targets documentation of student's placement activities and automation of documentation. But lacks Event Management System's features along with report generation.

Mr. Nilesh T. Rathod, Prof. Seema Shah, Vidyalankar Institute of Technology Wadala, Mumbai. "Design Paper on Online Training and Placement System (OTAP)". The system provides considerable features of online registration, system security, automated percentage calculation, data sorting and notification services. But lacks Event Management System's features along with report generation.

Mr. Nilesh Rathod, Dr Seema Shah, Prof Kavita Shirsat. **"Training & Placement System".** The authors gives the basic idea of the existing system, all processes are handled manually. the administrator should refer all the records kept for years ago to simply known number of users

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increases. there are many limitations for the existing systems. in manual training and placement, all the work done at ACE is by human intervention due to which there were maximum chances of errors.

Luan, Jing" Data **mining paper for placement & training system** "The author's paper for data mining provides easier ways to handle data of students. The interface of student and administer is maximum which makes the system time consuming. students created and submitted their cv's early in the year, leaving them frozen in time. lists were produced for each company, and students had to regularly travel in to review the notice board. the process was slowing, valuable academic time was diverted from activity That is more useful at ACE the record were stored in modified, excel sheet hence sorting is a problem.

III. SYSYTEM REQUIREMENTS

A. Introduction:

In the realm of software development and technology deployment, system requirements serve as the foundational blueprint for ensuring smooth functionality and optimal performance of a given system or application. These requirements outline the necessary hardware, software, and network specifications essential for the successful operation of the system.

Hardware and software requirements are essential specifications that outline the necessary configurations and capabilities for running specific software applications on a computer system. These requirements ensure optimal performance, compatibility, and a smooth user experience. System requirements are essential for both developers and end-users to understand the necessary infrastructure and conditions for smoother performance. Here are common components of system requirements:

- Software Requirements
- Hardware Requirements

B. Software Requirement

Software requirements define the software components and settings required for a computer system to operate a certain application or system efficiently. Software is a collection of instructions, programs, or data that enables a computer to execute specified activities or functions. It is a set of instructions for a computer's operation written in a programming language. The particular program requirements might vary significantly depending on the type of software being utilized. The following specifications are suggested:

➤ Laptop or PC

- Operating System : Windows 7 or higher
- Front-end : Android Studio
- Back-end : PHP

C. Hardware Requirement

Hardware requirements define the components and configurations needed for a computer system to run a specific software application or system. The recommended specifications are as follows.

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➤ Laptop or PC

- Processor : I3 processor system or higher
- RAM Capacity : 4 GB RAM or higher
- ROM Capacity : 100 GB ROM or higher
 - Speed : 3.5GHZ

IV. SYSTEM DESIGN

A. Existing System:

The existing system describes the features of the previous working model and their drawback. The current system handles every step by manually. Placement officers record student information. Any edits or changes that need to be made to a student's profile must be completed by manually. This is tedious and time-consuming, requires more manpower, uses a lot of paper, and takes up a lot of space. There is also a lack of data security. As the number of users rises, this process becomes increasingly challenging. Since the majority of the work in the current system is done by mutually beneficial ways, it is prone to error. Any changes take time to take hold. The primary issue is that there is no other way to notify scholars of updates or changes to their data except by posting notices on a notice board. The system handles all transactions manually while keeping records. Most of the time, the management and every department that completes this task manually makes it more difficult and tedious.

Drawback of the Existing System

- **Manual Processes:** Without a placement app, department coordinative may rely on manual processes for job posting, candidate screening, and recruitment management. This can be time-consuming, prone to errors, and inefficient compared to automated systems.
- **Difficulty in Tracking Applicants**: Managing a large volume of resumes and job applications manually can be challenging, leading to difficulties in tracking candidates' progress through the recruitment process and potentially overlooking qualified candidates.
- **Ineffective Candidate Matching**: Without sophisticated algorithms or search capabilities, recruiters may struggle to effectively match candidates with job openings based on their skills, qualifications, and preferences.
- Lack of Analytics: Traditional recruitment methods often lack the analytics and insights provided by placement apps, making it difficult for organizations to track recruitment metrics, evaluate the effectiveness of their hiring processes, and make data-driven decisions.
- Limited Collaboration: Without a centralized platform for recruitment, collaboration between hiring managers, recruiters, and other stakeholders may be fragmented, leading to communication gaps and inefficiencies in the

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hiring process.

• **Slower Time-to-Hire**: Manual recruitment processes can result in longer time-to-hire, as it may take longer to identify, screen, and select suitable candidates without the assistance of automated tools and technologies.

B. Proposed System:

The two main modules of the suggested system are Student and Admin; each module has an individual set of duties that must be completed. The system can overcome every limitation of the current system, such as maintaining student data in a database, increasing information security, ensuring accuracy of information, reducing paperwork and saving time, granting opportunities to only eligible students, streamlining data flow and facilitating the creation of simple reports, and requiring less space. By limiting access to such a huge database to a certain class of students or firm, the Placement Management System is an attempt to create a record of both the company and students. The application supports the placement department Coordinator in maintaining student data and sorting the student who got offer letter from selected company, and the student can evaluate his/her data. overcoming the limitations of the current method. In our project, the administrator is the most familiar user and is given the most priority. It makes it easier for the placement officer to examine all of the data, organise it by percentages, and remove irrelevant information.

> Advantage for the Proposed System

- **Centralized Platform**: It provides a centralized platform where students can access job opportunities specifically curated for their academic background and interests.
- **Early Exposure**: Students can gain early exposure to potential employers and industries, helping them explore career options and make informed decisions about their future.
- **Skill Development**: The app can offer resources for skill development, such as resume writing tips, interview preparation guides, and empowering students to enhance their employability.
- **Track Record and Success Stories**: It can showcase success stories of past students who selected in job which, inspiring current students and boosting their confidence in the platform.
- **Real-time Updates**: Students receive real-time updates on application statuses, interview invitations, and career events, keeping them informed and engaged throughout the placement process.

V. METHODOLOGY

A. Android

Android Studio is the official integrated development environment (IDE) for Android application development. It is based on the IntelliJ IDEA, a Java integrated development environment for software, and incorporates its code editing and developer tools. To support application development within the Android operating system, Android Studio uses a Gradlebased build system, emulator, code templates, and Github integration. Every project in Android Studio has one or more modalities with source code and resource files. These modalities include Android app modules, Library modules, and Google App Engine modules.

Android Studio uses an Instant Push feature to push code and resource changes to a running application. A code editor assists the developer with writing code and offering code completion, refraction, and analysis. Applications built in Android Studio are then compiled into the APK format for submission to the Google Play Store.

B. Activities

An activity represents a single screen with a user interface, in-short Activity performs actions on the screen. For example, an email application might have one activity that shows a list of new emails, another activity to compose an email, and another activity for reading emails. If an application has more than one activity, then one of them should be marked as the activity that is presented when the application is launched

Placement app requires a structured methodology to ensure that the app meets the needs of its users, functions effectively, and is delivered within the specified time frame. Below is a methodology outline that you can follow:

- Define Objectives and Scope:
- Clearly define the objectives of the college placement app. Determine its primary purpose, target audience (students, recruiters, college administrators), and the scope of features to be included.
- Identify key stakeholders and involve them in the planning process to gather requirements effectively.
- > Design Phase:
- Create wireframes, mock-ups, and prototypes to visualize the app's user interface and user experience (UI/UX).
- Design the app architecture, database schema, and system components.
- Define technical specifications and choose appropriate technologies and frameworks for development.

> Development:

- Develop the frontend interface using Android app development tool is Android Studio.
- Implement the backend logic, database integration, and server-side functionalities using technologies such as RESTful APIs, Firebase, or other backend frameworks.

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- > Testing:
- Conduct comprehensive testing to ensure the app's functionality, usability, performance, and security.
- Perform unit testing, integration testing, regression testing, and user acceptance testing (UAT).
- Identify and fix any bugs, issues, or inconsistencies discovered during testing.
- User Training and Support:
- Provide training sessions or tutorials for users to familiarize themselves with the app's features and functionalities.
- > Maintenance and Updates:
- Regularly maintain the app by addressing software updates, security patches, and compatibility issues.
- Release periodic updates to add new features, enhance existing functionalities, and address user feedback.

VI. RESULT

Table 1: Student_List				
FILED NAME	DATA TYPE	SIZE	CONSTRAINTS	DESCRIPTION
Stu_Id	Int	8	Primary key	Student identification
Stu_Name	Varchar	30	Not Null	Student Name
Stu_Email	Varchar	50	Not Null	Student Email
Stu_Mbl.no	Number	10	Not Null	Student Mobile Number
Stu_Resume	Var binary	_	Not Null	Student Resume
Stu_Deg	Varchar	10	Not Null	Student Degree
Stu_Pho	Number	_	Not Null	Student Photo



Fig 1: Student List

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Table 2: Add Drive

FILED NAME	DATA TYPE	SIZE	CONSTRAINTS	DESCRIPTION
Dri_Id	Int	8	Primary Key	Company Identification
Job_Role	Varchar	30	Not Null	Company Name
Dri_Date	Date	_	Not Null	Date
Com_name	Varchar	30	Varchar	Company Name
Quali	Varchar	20	Not Null	Qualification
Post_drive	Button	_	Not Null	Post Drive

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Add Drive			
Job Role			
Enter Job role			
Job Location			
Enter Job Location			
Drive Date			
Enter Drive Date			
Company Name			
Enter Company Name			
Qualifications			
Enter your qualification			
Add Drive	* * *		

Fig 2: Add Drive

Table 3: Drive_List

FILED NAME	DATA TYPE	SIZE	CONSTRAINTS	DESCRIPTION
Dri_Id	Int	8	Primary Key	Company Identification
Job_Role	Varchar	30	Not Null	Company Name
Dri_Date	Date	_	Not Null	Date
Com_name	Varchar	30	Varchar	Company Name
Quali	Varchar	20	Not Null	Qualification
Ару	Button	_	Not Null	Apply for a Drive

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📕 🛛 Job De	atails
Drive Id	: 1
Job Role	: вро
Job Location	: Coimbatore, Cochin
Drive Date	: 12/04/2024
Company Name	: Suthurland
City	: Bcom
Ар	ply for a Drive
* 3 3	abs.

Fig 3: Job Details

VII. CONCLUSION

By efficiently managing the student details linked to placement, the project's introduction and problem definition have been successfully completed and sent to the college's web-based placement administration system. We currently have a very user-friendly Training & Placement Cell. The current Training & Placement Cell is improved with several features. The majority of the TPO's time is saved using this Training & Placement Cell. The features of the system can be further enhanced in many ways. The documentation that has enclosed can enable even a person with minimum knowledge to understand it well.

This programme satisfies student needs and functions as intended. Using this software to keep and update information is quite simple. This site's primary characteristics include simple searching, easy storing, less in manual work, and a fast, dependable, efficient, and timely method of recruitment.

FUTURE ENHANCEMENT

Enhancements for a placement app can vary depending on its current features, user base, and target audience. However, here are some general ideas for future enhancements:

Skill Development Resources can Integrate resources such as online courses, tutorials, and articles to help users enhance their skills and qualifications. Providing access to these resources directly within the app can make it a onestop destination for both job search and skill development. Interview Preparation can Offer interview preparation tools such as mock interviews, interview question banks, and tips on how to succeed in different types of interviews (e.g., behavioral, technical). AI-driven Resume Optimization can Develop a feature that analyzes users' resumes and provides suggestions for optimization based on industry standards and job descriptions. Accessibility Features will ensure the app is accessible to users with disabilities by incorporating features such as screen readers, voice commands, and high contrast modes.

REFERENCES

- [1]. K.N. Prakash, N. Shwetha Lakshmi, K. Akshay, Mobile Operated Campus Application for Retrival of College Server Data Using Wi-Fi Connection, Advances in Computer Science and its Applications, vol. 1, pp.104-110, 2012
- [2]. Tejaswini (2017) "College Training And Placement System"
- [3]. Shilpa Hadkar, Snehal Baing, Trupti Harer, Sonam Wankhade, K. T. V. Reddy, and I. T. Department Padmabhushan Vasantdada Patil Pratishthan's College Of Engineering. Sion (East), Mumbai. College Collaboration Portal with Training and Placement"
- [4]. Mansi Gera, Shivani Goel, A Model for Predicting the Eligibility for Placement of Stu- dents Using Data Mining Technique, International Conference on Computing, Communication and Automation, pp.114-117, 2015
- [5]. Praveen Rani, Dr. Rajan Vohra, Generating Placement Intelligence in Higher Education Using Data mining, International Journal of Computer Science and Information Technologies, vol.6(3), pg.2298-2302, 2015.

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- [6]. Nilesh Rathod, Seema Shah, Kavita Shirsat," An Interactive Online Training & Placement System", International Journal of Advanced Research in Computer and Communication Engineering, Vol. 3, Issue 12, December-2013.
- [7]. WEBSITE REFERENCE
 [8]. http://www.ecmainternational.org/publications/files/ECMA-ST/ECMA-262
- [9]. https://developer.mozilla.org/en-US/docs/Web/HTML
- [10]. https://www.php.net/manual/en/
- [11]. https://stackoverflow.com/
- [12]. http://www.w3.org/TR/html401/html40.pdf.gz

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