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PrepMaster-The Placement Preparatory Platform

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Abstract: Students get ready for exams but they don't realize where they are frail and where they are strong in subjects. So, there ought to be a stage which makes a difference understudies to plan for situation exans. At its center, the stage tackles the evaluative control of Multiple-Choice Address (MCQ) exams, not simply as appraisals but as energetic devices giving understudies with nuanced experiences into their scholarly qualities and zones that warrant change based on their execution. Moreover, the stage recognizes itself through the consolidation of both taunt and genuine tests, cultivating a comprehensive and custom-made approach to availability. A energetic and personalized leaderboard, a particular highlight of this framework, improves the client involvement by giving real-time input on students' standing inside the college community. This multifaceted approach points to enable understudies not as it were with the vital information for situation victory but too with a increased sense of self-awareness. This investigate endeavors to contribute noteworthy points of view to the ever-evolving domain of career availability stages, emphasizing the advantageous relationship between expertise appraisal and self-awareness. The ponder utilizes a comprehensive examination of the platform's advancement, its special highlights, and client input to supply profitable bits of knowledge into the advancing landscape of instructive innovation within the setting of college arrangement.

Keywords: PrepMaster, Placement Preparation, Web Application Development, Data Analysis, Multiple Choice Questions (MCQ), Mock Tests, Actual Tests, Dynamic Leaderboard, Personalized Leaderboard

I. INTRODUCTION

In today's context of specialized improvement and proficient advancement, innovation integration instead of conventional instruction plays an imperative role in change. Our term paper looks at the complexities of a comprehensive program called "PrepMaster", a one of a kind combination of web advancement and information examination. This exertion is based on understanding issues in planning individuals for ability evaluation, which is an critical portion of numerous arrangements. The PrepMaster program is advertised with a combination of two primary components: hone tests and execution tests. Together, these models give clients with a nitty gritty and capable environment to reenact genuine testing and sharpen their capacities and aptitudes. In expansion to conventional arrangements, PrepMaster offers modern highlights such as moment pioneers and personalized dashboards to back competitive, clinical learning. What sets PrepMaster separated is its commitment to leveraging the control of information analytics to extend the viability of the planning prepare. Utilizing factual information, PrepMaster not as it were assesses person execution but moreover gives proposals and instructive alterations. This permits clients to be personalized and center on points of interest that require improvement. This case consider points to share bits of knowledge and examination of information picked up from the crossing point of web development amid our challenging travel on the PrepMaster venture. The program isn't fair a apparatus for capacity arranging, it too epitomizes the capacity of innovation to alter and move forward the working environment. When inquired what they learned from the program, answers extended from great information of web advancement and information examination procedures to a more profound understanding of innovation to progress a trade

II. LITERATURE SURVEY

Akshay Kumar, Sanjay.V.Mahendrakar, Smriti, Vishal.A.V, G.Ramesh in their paper [1] titled "Nie Placement Hub" proposed that their should be a proper mobile application for the communication regarding placement of students in

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college TPO and students, for that they proposed android application for all kind of these activities. Now a days, every one having their smart phones so it becomes easy for students to grow up. Once user opens the Android application, in the front end all the schedules are available to everyone. There are four types of users they are Student, HOD, Principle and Placement Officer of the college. By studying this we decided there will be 3 users as Student, Admin and Teacher. We studied DFD diagrams from their research and we made according to our need for ourself.

Data Flow Diagram - Level 0



Data Flow Diagram - Level 1



Rajnish Tripathi, "Raghvendra Singh, Ms. Jaweria Usmani in their paper [2] titled "Campus Recruitment and Placement System" aims at the existing manual processes in the placement system lead to inefficiencies, particularly in data management and communication. The proposed system aims to address these challenges by automating online registration, user activation and deactivation, personalization, resource provision, and communication. Additionally, the system empowers administrators with streamlined data validation, efficient student list generation based on company criteria, seamless information sharing, and simplified searching, sorting, and report generation.

Twinkle Panchal, Mayuresh Wadke, Prof. Aishwarya Sedamkar in their paper [3] titled "Placement Management System", within the existing system, biggest work goes in paper by people and it is error inclined system, and this system takes time for any changes within the system. The foremost critical issue is the looking; sorting and overhauling of the understudy information and no any method for notification available for giving data to student expect the notice board. In the Online Placement System supplies computerization in all the processes. The system gets online registration of all the user, deactivation and actuation of the user, personalization to the user, assets to be provided online, communication between the online feedback, users, other setting option. The admin can see the user data and will authorize it, create the shortlisted student list based on the company criteria, company details can be given to the all users, sorting and searching can be done, and reports can be created. Graduated class information can be maintained. Generally, all the process of the placement department is computerized. No customized application is accessible for manage quality procedures in educating environment. OP System serves the quality implementation solution in educating environment.

Nilesh Bhad, Pooja Kamble, Sunita Saini, Prof. Yogesh Thorat, in their paper [4] titled "Review on An Interactive Training And Placement System" (IJAERD Volume 3, Issue 11, November -2016) highlights the improvement of a

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Placement Management System aimed at computerizing and progressing student placement processes in a college. The proposed system addresses the challenges of manual data administration and support, offering benefits such as fast get to to placement-related activities, decrease of staff workload, and convenient data spread. Key highlights include keeping up comprehensive student points of interest, giving enrollment records based on qualifications, empowering chairman looks, and encouraging simple information recovery and upgrades. The system aims to reduce the time and fetched related with manual printed material, giving a user-friendly and helpful site. Eventually, the Placement Management System is situated to improve effectiveness, streamline campus enrollment, and offer substantial benefits to both work searchers and system users.

Santhosh Kumar H, Mrs. Srividhya V R in their research paper [5] titled "Online Training and Placement Management System" we learned manual procedures are inefficient and error prone, hindering the management and communication of student information. The online system is recorded, updated and researched, and solutions are offered. This simple approach addresses existing limitations, making study more efficient and better for students.

Maryam Sayyed, Faiza Umatiya,Seemab Zehera, Prof. Shiburaj Pappu in their research paper [6] titled "COLLEGE PLACEMENT MANAGEMENT SYSTEM", their project structured using ASP.NET / C# and MariaDB / SQL backends and XML. Security is provided by SHA256 encryption. Future plans for resumes, skills assessments, and direct communication with employers address the use of electronic technology, including electronic interviews, distribution of cover letters via website, and student participation in the program

III. METHODOLOY

This framework caters to both students and teachers, serving as a comprehensive record-keeping stage for student data. It includes scholarly and individual points of interest, guaranteeing a intensive database. Furthermore, it oversees imperative company data, enveloping profiles, qualification criteria, and advertised offices or bundles.

Upon concluding our examination of this particular region, we locked in in comprehensive discourses, overcoming challenges related to venture start, characterizing necessities, and building up objectives. Our collective investigate discoveries were recorded, shaping the premise for our project's course. We broadly checked on existing frameworks, gathering bits of knowledge into the common advancement direction.

Hence, we commenced the extend arranging stage, concurrently starting program plan and making specialized charts with nitty gritty determinations. As we advanced through coding and execution, our center amplified to thorough testing. The perfection of these endeavors brought about in a Arrangement Administration Framework prepared for sending, advertising conclusive comes about and giving critical benefits to the companies included, basically working as a devoted site.

The System Comprises of Three main modules and their sub modules are as follows: Admin

- Login: Admin needs to login with valid login credentials for accessing the system
- Create Exam: Admin have authority to create exam
- Add and remove user: Admin can add new teacher or student or remove them
- View Leaderboard: Admin having authority to view leaderboard

Teacher

- Login: Teacher needs to login with valid login credentials provided by admin
- Create Exam: Teachers have authority to create exam
- View Leaderboard: Teachers can see leaderboard of all students

Student

- Login: Student should login using the credentials provided by the admin
- Give Exam: Student should give MCQ exam
- Personalized Leaderboard: Student can see his/her marks immediate after exam
- Strengths and Weaknesses fields using Graphs and Charts: Student can find himself/herself where he/she is weak and strong in the subjects.

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IV. FUTURE SCOPE

PrepMaster's success in capacity building sets the stage for future progress and expansion. The following areas offer opportunities for further development and improvement of this platform: With its prepared structure, PrepMaster can be used by integrating other courses (both academic and registration) to expand its scope. This expansion will transform the platform into a comprehensive plan that meets multiple learning needs.

Adaptive Learning Algorithms:

Using adaptive learning algorithms based on user performance data is a promising method for future development. PrepMaster can provide a personalized and effective learning experience by customizing challenging questions and tailoring the curriculum to individual strengths and weaknesses.

Gamification elements:

Adding gamification elements to PrepMaster can increase user interaction. Integrating features such as badges, rewards and interactive sessions will make the learning process more enjoyable and encourage users to participate in planning.

Integration with Educational Institutions:

Potentially collaborate with educational institutions to integrate PrepMaster into their classrooms or advanced learning tools. Tailoring the platform to specific learning environments and facilitating its adoption in educational settings can make it effective.

Continuous research and user feedback:

Continuous research and commitment to user feedback are central to the platform's success. The combination of ongoing user insights and awareness of advances in educational technology will ensure that PrepMaster remains relevant and valuable to students.

V. CONCLUSION

In instruction innovation, "PrepMaster" isn't as it were a planning stage but moreover a catalyst for moving forward education. Integration of energetic rankings gives a sound component of competition and increments client intrigued and engagement. Accessible usefulness makes an environment that goes past test arrangement by permitting people to compare their execution to their peers. But what's unused is PrepMaster's guarantee of personalized learning through customizable control boards. Integration of energetic charts turns post-test examination into quick self-discovery. This permits understudies to fine-tune their arrangement methodologies by distinguishing their qualities and shortcomings. A customized dashboard is more than fair a report; It could be a advancement strategy that gives a clear understanding of the learning prepare in an viable and productive way. When we total our study on PrepMaster, it gets to be clear that its victory isn't constrained to innovation integration. Energetic rankings and individual dashboards are rethinking the scene of arranging destinations by considering not only academic accomplishment but moreover individual improvement. PrepMaster's bequest lies in its capacity to form a steady and challenging community where understudies can develop, learn, and succeed on their claim terms

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