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Abhigyan Placement Assistant - A Web Application

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Abstract: ***With the introduction to the concept of digitalization in our country and being a student of technical studies and especially computer science, It becomes our responsibility to take part in this revolution and contribute as much as we can to digitalize or automate the necessary processes, which can ensure to its better functioning and enhance the performance of a certain system. Inspired by this idea we came up with Abhigyan, as our project which intends to automate and digitalize the process of training, monitoring and hiring, which is the most important process for any institution offering professional training/education. Abhigyan include every entity involved in the system and automates their function, resulting to increased efficiency & quality with an added layer of security. The main focus of Abhigyan is on automating the placement process of an institution, in doing that we have included all the subsequent supporting processes and entities linked to it.***
Keywords: Placement, training, mock test, department, hiring, placement drive

I. INTRODUCTION

Hiring is the most important process/phase for a student pursuing some professional course and the institution offering it, as well. Both of them put lots of effort for it. The student wants to get hired by his dream company at a very good package so that he can have a good career ahead, at the same time, the institution is trying to have its students placed with the biggest brands in the market and that too at a good package so that they can be on top of wish-list of every person aspiring of professional courses like B.E or MBA. There are numerous small tasks that goes on throughout the year to have a good result at the end, like training the students for placement, helping them to get internship with good companies, helping them in soft skills, monitoring ongoing hiring process and many more are there to the list. But most of the tasks in this process are offline & manual which makes it more hectic and tiresome for the individuals and departments involved in it, be it the HR of a company, placement cell of the institution or a certain department of the course.

Our research shows that, there are various platforms targeting this process, but they end up touching just one or two tasks of it, and none of them covers the whole process and every task of it. For example, there are platforms like Internshala to provide internship opportunities, Amcat for online placement drives, Linked in to connect with professionals or aluminis of your institute, But we found no noticeable platform that covers all the three at one place and none focused on coordinating with the students, institutions and the companies at one place. So we came up with ***Abhigyan*** that aims at covering all the tasks of the process and be a platform that coordinates with the different fragments of the institute and connect them with the companies, aluminis, and the students at one place. We are committed to add up all the necessary and missing modules in the frequent updates.

II. EXISTING SYSTEMS

A. Internshala

Internshala is an internship and online training platform, based in Gurgaon, India. Founded by Sarvesh Agrawal, an IIT Madras alumnus, in 2010, the website helps students find internships with organizations in India

B. Amcat

AMCAT is a computer adaptive test which measures job applicants on critical areas like communication skills, logical reasoning, quantitative skills etc. It brings students and companies at one platform.

C. Linkedin

LinkedIn is an American business and employment-oriented online service that operates via websites and mobile apps. Launched on May 5, 2003, it is mainly used for professional networking, including employers posting jobs and job seekers posting their CVs.

III. PROPOSED SYSTEM

***Abhigyan*, the proposed system is a platform where different entities like, placement cell, alumini, department heads, director come together and conduct the hiring process which has been automated and brought online. Effort has been made to automate every possible task. Following are the features of our proposed system:**

A. Conduct mock test and declare result online and update the department wise performance meter
B. Publish notices for Director, Placement Cell, and Department Heads
C. A simple interface to connect students with alumini for internship and hiring purposes
D. Schedule and Conduct placement drive option for Companies.
E. Option to request NOCs,submit research papers and project reports for students.

IV. SYSTEM MODULES

As already discussed, we have different modules to design, but the whole structure has been divided in 3 parts

A. Front End
B. Database
C. Back-End

In the development process we have used following technologies for development of different modules

Module	Technology
Front End	Bootstrap, Vanilla JS
Back-end	PHP, Codeigniter
Database	Mysql, phpmyadmin

Comparison (Existing Platforms)

	Yes	No	Yes	No	No	No	No
	Yes	No	Yes	Yes	No	No	No
	Yes	Yes	Yes	No	No	No	No
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

V. CHALLENGES

While developing the platform, the main challenge was to not leave any important task or module, for meeting this challenge, we did our research and studied how the whole process of placement drive is being carried in our institute.
The second challenge while designing any web app is its responsiveness and to ensure it supports all the browser engines like webkit, blink etc. and multiple devices like laptops,mini laptops, tablets and mobile devices.
The third challenge while developing this platform was to ensure the security and integrity of the process. Because the process is very important one and we must ensure that no mischievous element to effect its integrity.
The interactivity of user interface has been our main focus and we tried our best to have the color combination that is suitable according to all the modules involved in our project.

VI. CONCLUSION

This paper proposes the idea of ***Abhigyan***, which focuses on completely automating the placement drive or hiring process of any institution. We have discussed, how important is the hiring process for any institute offering professional education or the student pursuing it. We also discussed how hectic it is to follow the current offline method for the implementation and using different platforms for performing different tasks of the same process. And later we described our approach for automating and easing out the whole process with an extra layer of security. We also discussed about the existing platforms which can be or are being used for performing specific task of the process and how we are extracting useful features and customizing them as per the actual requirement. And later we tried to explain how we have attempted to bring all possible features to meet the requirement and make our platform stand as one among the crowd and how we our platform is different from others.

VII. FUTURE WORK

At present, we are working on a web application that supports all kind of devices and have also ensured to limit certain features like tests and mock test to limited devices, i.e. laptops and mini laptops. Reason is to ensure the credibility of our platform and to meet security requirements as well.

But for future, we have plans to launch different platform apps like android, ios, windows and linux. And we are also considering to include certain features that does not have direct impact on the hiring process but play major role indirectly, like online training, team meetings, assessment of projects etc. These tasks have a great impact on any student's portfolio and ultimately there selection in a company. Thus we are considering to automate and bring these features on our platforms.

We are also committed to work on frequent updates of this platform even after our graduation, so that it more useful for the users using it.

VIII. ACKNOWLEDGEMENT

The undertaking was done at the B.Tech venture at the Department of Computer Science of IMS Engineering College, Adhyatmik Nagar, Ghaziabad. The work has been directed by our internal mentor Dr. Pankaj Agarwal who is also the Head of the Computer Science Department. We are thankful to him as he was actively involved in the project with his key inputs that has played vital role in developing the project. We are also thankful to Mr. Vivek Jain, who is Associate Professor at IMS' Computer Science department. The database has been built and optimized under his guidance and his suggestions and inputs proved to be of great help for us.

We are also thankful to Mr. Ayush Agarwal, Founder and CEO of Trinity App Lab. Who provided us with necessary resources like server, database and technical assistance which were the necessary requirements of the project.

We also thank, Mr Sunil Kumar the head of Placement Cell at IMS Engineering College, who helped us with the research on the ongoing process and also provided us the idea about the requirements if we tried to bring everything online.

The project could not have been successful without their help and guidance and we are very thankful to them and they own majority of the credit for the platform being developed.

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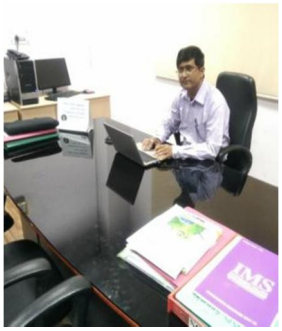
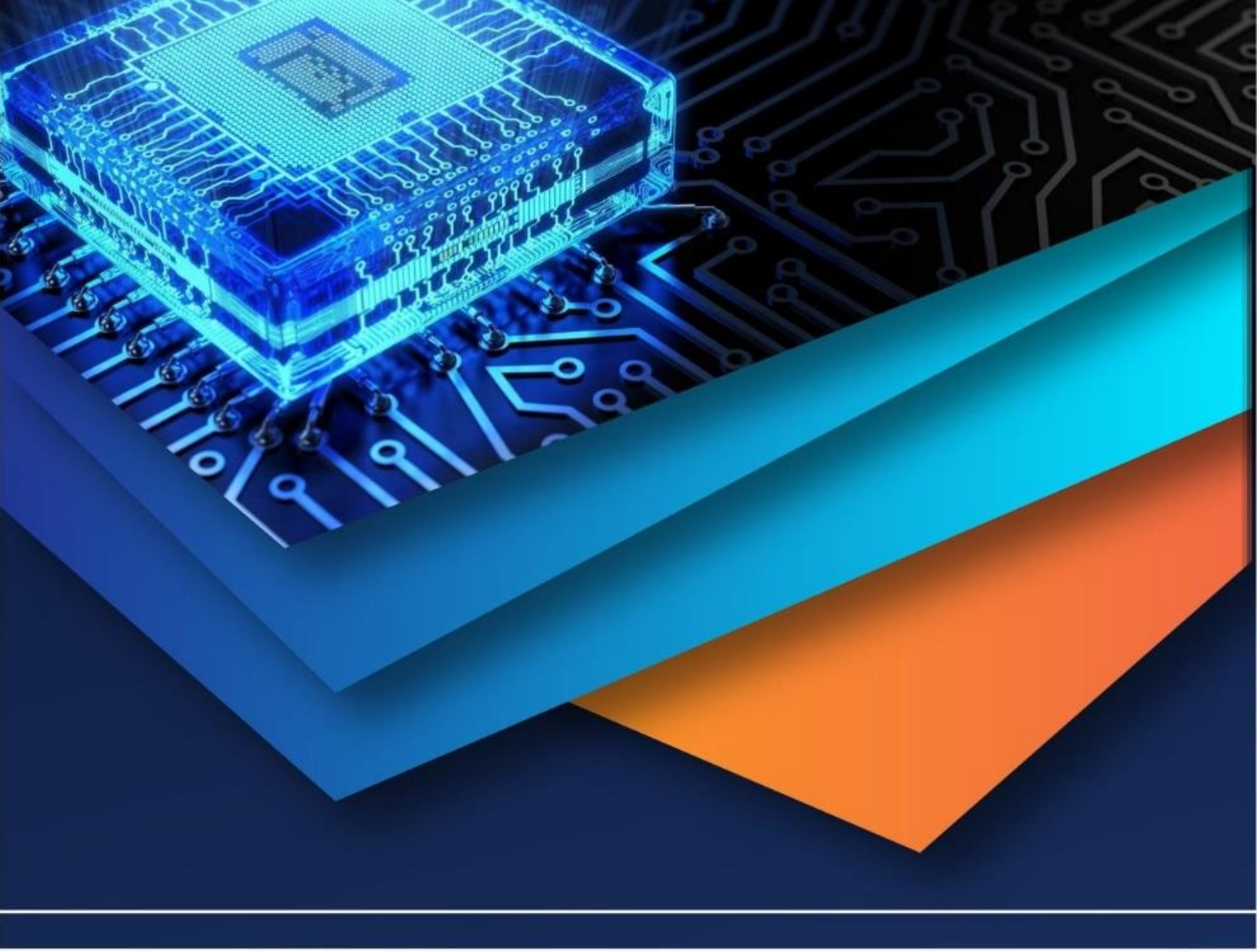
Mr. Divyansh Dixit is currently pursuing B.Tech from IMS Engineering College in Computer Science Engineering. He is also founder of Ovelpo Technologies Private Limited, an IT based Start up. His key research areas are Web Development, PHP, Codeigniter, and mysql. He is involved in the project as the back-end developer and has actively taken part in the planning and elicitation of the requirements.



Dr. Pankaj Agarwal is professor at IMS Engineering College with 15+ years of experience and keen interest in machine learning. He is also the Head of the Computer Science Department.He has done phd from Jamia Millia Islamia University, having 50+ papers published in International Journals. He is also a member of some international journals and communities like CSI and ACM



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