

DESIGN AND DEVELOPMENT OF WEB APPLICATION FOR STUDENT PLACEMENT TRAINING - KNACK TRACK

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Abstract - Knack Track is a web application which is useful for students. The main objective of the project is to develop the website where students can learn the courses and practice themselves for placement activities. This web application will be a standard platform for students to provide training and assessments in all aspects such as programming languages, numerical, vocabulary, reasoning areas. This system provides separate working environment for admin and students. Admin can activate the assessments, programming courses and can monitor the students activities. Assessments are given separately to the students, in programming questions means, then they can use our compiler to execute and run their programs in their comfortable programming languages. This system also provides face recognition for identifying users of the system in MCQ assessments to avoid malpractice. The progress of the students can be easily monitored instantly using reports. Through this site, the students can learn the courses in online very easily and freely.

Key Words: Knack Track, Programming languages, Assessments, Admin, Activation, Face Recognition, Reports.

1. INTRODUCTION

Now days, students need to be search for their job or career on their own. They have to prepare for everything that is needed for a recruitment company on their own. Its been very difficult to search everything in one website. Placements regarding websites are available at online either they give assessments in quantitative/ logical/ verbal part or programming sites. Even some websites provide both of that as payable. For that, this web application will be very useful for students in every aspects of genuine self knowledge tracking and also they can maintain a steady increase in their growth without any malpractice. In this web application, students can obtain the knowledge easily and freely. This system contains a database server containing a list of users but users can be differ by category. One is admin who can activate set of assessments in quantitative, logical, verbal multiple choice questions and also the programming assessments. He/She can activate programming courses freely for specific programming languages (C/C++, Java, Python) and also can activate the daily programming questions by using data set, so that it can easily updated every day for students to practice. Then he/she will be able to monitor all those students activities as reports whether

they taking the examination as seriously or they are malpractice the examination. Admin can keep track of students activities and it is frequently updated. The other is students who can take assessments which are activated by admin and can self monitor their assessments reports through graph as growth evaluation from start to end. He/She could not be able to malpractice on assessments because they are continuously monitor by the admin and also he/she can update their profile. If he/she have any doubts about questions or company, he/she can update it in forum field.

2. SCOPE

The objective of the project is to develop the website where students can learn the courses and practice themselves for placement activities. Through this site, the students can learn the courses in online very easily and freely. The institution can keep track of the students placement activities through this web application and managing the students placement details with it. Students can learn and practice the study material require for company placement. This application will be useful for an institution and their students. This will lead the students in a better way that will help them to catch their dreams freely and easily.

3. OBJECTIVE

To reduce the job required to manage the student activities manually and to keep track of the students placement activities in all aspects and the updated set of questions from the recruitment companies are used.

1. Reduce the paperwork and storage area for specific assessments.
2. This application will be useful for an institution and their students.
3. As the current system is manual it does not require any sophisticated training for the User of the system.
4. It has the user friendly interface having quick authenticated access.
5. It enable the placement students to enhance their skill sets and keep track of their records

4. LITERATURE SURVEY

4.1 Android Application for Training and Placement

Authors: Aditya Kumar, Pallavi Sinha, Dheeraj Kumar, Shitesh Jain, Angshuman Bhattacharjee, Mr. M G Panjwani

This paper discuss the simple mobile application that will provide the placement training for the students for their college [1] and it can be used be urgent part of any instructive establishment in which a large portion of the work till now is being done physically . This paper also shows as an android application which will help understudies and additionally the organization power to do every last action in this office. This paper also additionally gives an asked for rundown of contender to enlist the understudies in light of given question. This paper concluded that aims at making the registration procedure for students for training and placements in campus easier and also This Application provides an easy way to TP head to keep track of training and placements of all the students and saves him loads of manual work. It can be easily downloaded in many other Android mobiles or tabs. The app is very convenient and user friendly.

4.2 Automated Face Detection & Recognition for Detecting Impersonation of Candidate in Examination System

Authors: Anuradha.S.G, Kavya.B, Akshatha.S, Kothapalli Jyothi, Gudipati Ashalatha

This paper discuss automated face detection and recognition[2] for detecting impersonation of candidate in examination system. This paper provide information about how to implement automation and recognition in examination purpose. Impersonation of candidate is a fundamental system in examination system is often referenced as a malpractice. This application helps us to implement this concept for our college. This paper conclude fraud is detected with respect to impersonation and message send to chief examiner and also sent to room supervisor. This scheme is good compatibility, easy to use, suitable for application on web technology platform.

4.3 Online Compiler as a Cloud Service

Authors: Arjun Dattal, Amab Kumar Paue

This paper discusses online compiler[3] as a cloud service. This paper focuses on solving the problem of storage and portability of compilers. The controller will then decide which compiler server the program should be assigned to compile, depending on the load of back end compilers. The compiler server will compile and run the program. The output is then given back to the user. The distribution of load by the controller is also tested by calculating the total response time of the programs in both serial and parallel program allocation to compilation tier. This model concluded that when large number of users can compile the programs and views the output in minimal time and also

used to increasing the number of back end servers result in considerable performance. The proposed system provides the new way of computing and displaying an operation with responsive and attractive user-interface.

5. EXISTING SYSTEM

Existing system provides either programming oriented training and assessments or numerical, vocabulary, reasoning related training and assessments. Existing system can provide training and assessments on the specific domain but not on all areas which were required for placement training.

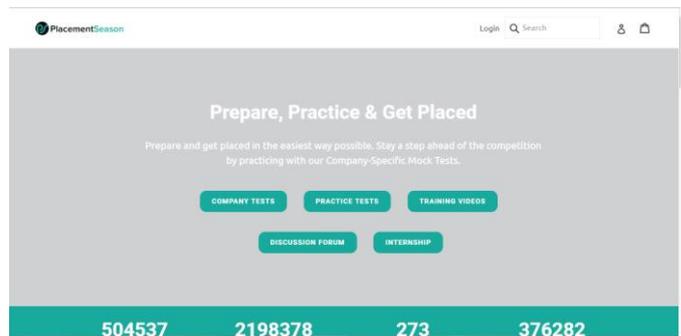


Fig -1: Placement preparation only for quantitative, logical, and verbal

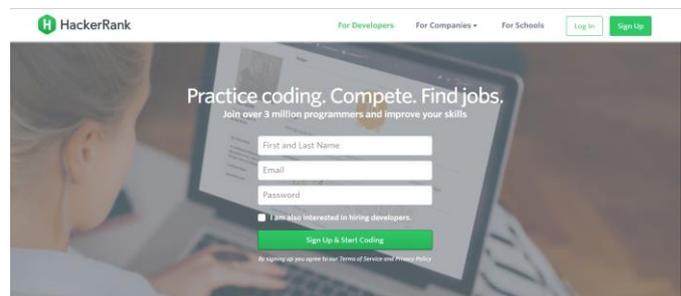


Fig -1: Hacker rank to practice the programming assessment

6. DRAWBACKS OF EXISTING SYSTEM

Student assessment and feedback is limited. Many, if not most, of today's web-based training program are too static, with little if any interactivity. Newness -new technologies always require time, experience, and money in order to take full advantage of its capabilities. Web-based training has high-fixed costs. Online courses require more time than on-campus classes. Most of the online assessments are limited to questions that are only objective in nature.

7. PROPOSED SYSTEM

In our proposed system Our system provides a platform to provide training and assessments for programming languages, numerical, vocabulary, reasoning areas. This

system also provides face recognition for identifying users of the system to avoid malpractice. The progress of the students can be easily monitored instantly. In our proposed system web application, students can obtain the knowledge easily and freely. This system contains a database server containing a list of users but users can be differ by category. One is admin who can activate set of assessments in quantitative, logical, verbal multiple choice questions and also the programming assessments. He/She can activate programming courses freely for specific programming languages (C/C++, Java, Python) and also can activate the daily programming questions by using data set, so that it can easily updated every day for students to practice. Then he/she will be able to monitor all those students activities as reports whether they taking the examination as seriously or they are malpractice the examination. Admin can keep track of students activities and it is frequently updated. The other is students who can take assessments which are activated by admin and can self monitor their assessments reports through graph as growth evaluation from start to end. He/She could not be able to malpractice on assessments because they are continuously monitor by the admin and also he/she can update their profile. If he/she have any doubts about questions or company, he/she can update it in forum field. This application will be useful for an institution and their students. This will lead the students in a better way that will help them to catch their dreams freely and easily.

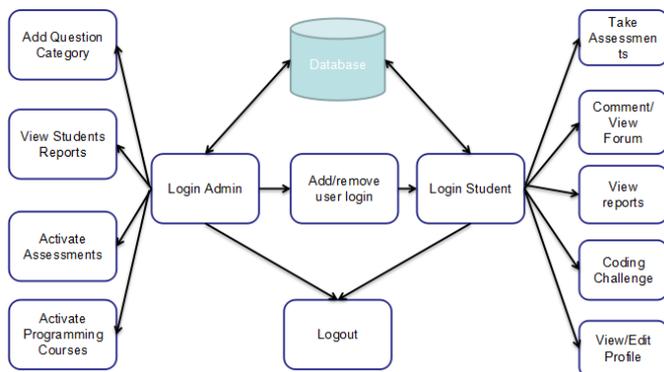


Fig -3: Proposed System Architecture

8. MODULES

The application is divided into 2 login modules

8.1 Login Module 1

In the first login module provide login for Add/Remove Login, Add Question Category, Assessment Activation, Programming courses, Reports. Add and remove login module page contain admin going to add and remove the students who are accessing the system. Admin can add the questions to the category wise to the system. Assessment activation page contain students get activated to perform the activated questions. Admin activates the assessment test to the students request. Activating new questions to the students to perform challenges. Programming courses page provide user to select the programming language.

Programming track, Daily Challenge and other programming question are activated by the admin. Daily challenge will be automatically generates to the students. The Question are added to the data set. Report page provide Admin view the students marks through the report sheet. They can monitor the students illegal activity. If the students implicate on malpractice activities they are removed by admin. Admin can authority to remove the students account for getting low marks.

8.2 Login Module 2

In the second login module contain Assessments, Programming Track, Course, Daily Challenge, Reports, Profile, Forum. Assessments page contain sessions like programming languages, numerical, vocabulary, reasoning areas(multiple choice questions). The results of the assessments will be added to reports as graph, so student can focus what to improve their knowledge. Daily challenges page contain the Students can attend the daily challenge section. Daily Challenge question updated automatically to this section. Students can execute and run their program through the compiler. Reports page contain In the students view their strength and weakness analysis.They can easily the view the marks in date wise with graph sheet.Forum page contain Students can send their comments in the forum through the email. Programming track page contain Students can practice the affordable programming language.They can execute and run the program in the compiler. Course page contain Students can view the course details and learn the programming course through online very easily and freely.

9. WORKFLOW

The application is divided into 2 sub-groups-

9.1 Admin

After the admin login he or she can now view main page where there are option to about view Add/Remove Login, Add Question Category, Assessment Activation, Programming courses, Reports. Admin can add and remove the students. Admin can also add questions based on the category. Assessment is activated to the allocated students by the admin. Programming courses provide information to students to access their required course which are allocated by the user. Report contain about the students misbehavior or malpractice that can be viewed by admin.

9.2 Students

After the student login he or she can view main page where there are option to view Assessments, Programming Track ,Course, Daily challenge, Reports, Profile, Forum. Students can perform task allocated by admin in assessment page. Programming track is used to Students can practice the affordable programming language. They can execute and run the program in the compiler. Course page provide Students can view the course details and learn the programming course through online very easily and freely. In Daily

challenges, Students can attend the daily challenge section. Daily Challenge question updated automatically to this section so that user can perform. In report page logging student sent any queries through this. In profile page students can view their own information and also user can edit any changes if required. Forum page is used to provide feedback about the current activity.

10. REQUIREMENT ANALYSIS

10.1 Hardware Interface

Processor	:	Intel Core Processor
Memory	:	8GB RAM
Hard disk	:	512GB internal Solid State Drive
Keyboard	:	Standard keyboard

10.2 Software Interface

Operating system	:	Windows OS
Front End	:	PHP
IDE	:	WAMP server
Back End	:	MySQL 5.0.5

11. BENEFITS OF PROPOSED SYSTEM

1. This application will be useful for an institution and their students.
2. This will lead the students in a better way that will help them to catch their dreams freely and easily.
3. As the current system is manual it does not require any sophisticated training for the User of the system.
4. This project will cater facilities to all the existing versions of web application.
5. This scheme is good compatibility, easy to use, suitable for application on web technology platform.
6. This application is used to identify the students misbehavior and malpractice.

12. CONCLUSION

The web based application for DESIGN AND DEVELOPMENT OF WEB APPLICATION FOR STUDENT PLACEMENT TRAINING - KNACK TRACK is presented. This system provides an easy way for training the students for placement in both technical and non-technical aspects. Hence our application is a two-in-one purpose application. The application also offers reliability, time savings and easy control due to its features. Since our system monitors the individual student progress and entire institute users progress, the uses could easily analyze their progress easily.

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