Employability Skill Tracking and Development

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Abstract:

In today's education System Why many students feel demotivated in their own studies? Sometimes teachers can't understand the reason behind this behavior of students. One of the main reasons for that is the scarce appeal of learning material: Everyone feels that the syllabus they are learning is not related to the requirements of their job. Moreover, sometimes they feel that they are trained for jobs that will disappear in 10 years. And by all means, they know that after finishing school they must face one of the biggest challenges in life: find a job.

According Future Skills 2020 Report (by Institute For The Future), future work skills required by the labor market have some important implications for the Educational System. Educational organizations at all levels should consider how to adapt quickly in response. Industry 4.0 Study says us that the labor market is going to change quickly and deeply. Are we ready to face it? How can we become/keep employable and run in the new challenges of the world of work? How do we feel in facing one or more transitions during our career?

Keywords: Employability, Skill, Laravel, Database, PHP, etc.

I Introduction

Employability skills are becoming increasingly very popular subject due to the increase in employees and jobs are decreasing.

Our software is developed for empowering businesses, academic institutions, sector skills councils, and government with deep talent insights while enabling better hiring and development decisions. Through our robust and highly secured and certified test engine, rich and advanced analytics, highly interactive and intelligent assessment tools, we drive great business results and people ROI for our customers 'SET' offers a highly customized and advanced platform, to assess the talent helping our customers screen and select the right brains with right attitude complimenting the organization's culture.

II Literature Review

Nishad Nawaz's research on ROLE OF EMPLOYABILITY SKILLS IN MANAGEMENT EDUCATION states the definition of Employability as Employability skills are the non-technical skills and knowledge necessary for effective participation in the workforce. They can include skills such as communication, self-management, problem-solving, and teamwork. They are also sometimes referred to as generic skills, capabilities, enabling skills, or key competencies.

Mansour and Dean (2016) focus on the types of employability skills that are common among the faculty of HRD programs and employers of HRD graduates both in the U.S. and internationally. To evaluate the interrelationships between the variables of interest among employees and faculty members, both in the U.S. and internationally, a one-way analysis of variance (ANOVA) was utilized.

Shradhanjali (2016) aims at exploring the true meaning of soft skills which are nowadays the most essential skill set for engineering graduates in India. For increasing the productivity of any educational institute development of the human capital of an institute must be the priority.

Urvashi Kaushal research for Empowering Engineering Students Through Employability Skills.

Expectations for engineering students also include stress and time management skills along with integrity, perseverance, and confidence. These are attributes that go hand in hand with the above-listed skills and do not need a special explanation. Apart from all the soft skills that are mentioned in this article, the very obvious technical skills and computing skills are mandatory for all engineers. These skills can be acquired by developing certain attributes and making some behavioral changes. For instance, communication skills in English can be developed by regular practice of the language and by developing the four skills of listening, speaking, reading, and writing.

III Propose System

A Problem definition of existing system

Existing system does not give any suggestion about developing required skills. Report is not created as per your progress.

Teacher Can Schedule quiz as per students level.

TPO can monitor their respective students.

Everyone has many option for guidance and improvement throughout.

B Problem definition

Today there are fewer jobs and the number of candidates for any job is a lot more. So to get jobs we must adapt relevant employability skills required to be employable. So there is no proper system that will track students' employability skills and help them to improve their skills.

Here we are developing a system that will track the skills as per quiz results and give suggestions based on the topic to be improved.

C Project scope

The software will not generate any tests. The test will be designed by the respective skill teacher.

Software may suggest an appropriate website for your required employability skills to be improved.

The report will be given only by the provided result of the conducted test.

IV System Design:

A System Architecture

As time goes by, more evident is the importance of using software systems, in the most varied areas, of an ever increasing size and complexity. The massive use of this technology, as well as the resulting need to obtain efficient, dependable and durable software systems, requires the previous preparation of a target software architecture which will make possible a description of the elements that make up a system, the interactions between those elements and the principles that lead to its evolution .Our system will be administrated by administrated who add skills and their aspects. Second user will be test designer who will design the test as per specified aspects by the administrator. Next user who conduct the test will upload the result to the software. Which will get calculated by software itself and will give result and suggest any guidance for skill which need to be developed.

B Users of system:

Admin: Administrate the system. Keep eye of teacher and student are they authorized or fake.

Teacher: Create Quiz by importing question. Will schedule quiz for students.

Student: As they get to know about schedule they will appear in that time interval.

TPO of Institute: Keep eye on respective students' performance.

V GUI design:

Design will have registration portal along with login button as well, for already registered users.Employee can see their results after log in.

Admin can maintain system and the information of the system.

candidate will register in system and apply for the skill report.

A Database design:

Hypertext Preprocessor is a technology that allow software developers to create dynamically generated web pages

VI APPLICATIONS

1. Students Skill Improvement.

2. College can use this for students employability skills tracking.

3. Competition will leads to progress in study of every student.

4. Teacher will do their work easily by just importing questions from excel and allot to specific student

VII   Implementation

As specified earlier in user description each user will redirected to their dashboard. Student Dashboard student will attend test as per allotted schedule. This scheduling task and creating quiz is done by skill teacher. Progress of each student should be monitored by TPO of their institute.

VIII   Methodology:

Here we use laravel technology to create web pages and connect to database. Laravel is free open source php framework used for web development at front end .Contains templates for forms, buttons, navigation and all required interface components.

In laravel framework is easy to work in sorted manner due to which project required time is decreased. Views ,Controllers and models are mostly used for our project

Xampp(mySQL) is the technology will give us database to store all past data in sorted manner.Retriving previous data is reliable and easy due to big-data technology.

A   Software tools required

1)XAMPP

2)Browser

3)LARAVEL

B   Programming Languages
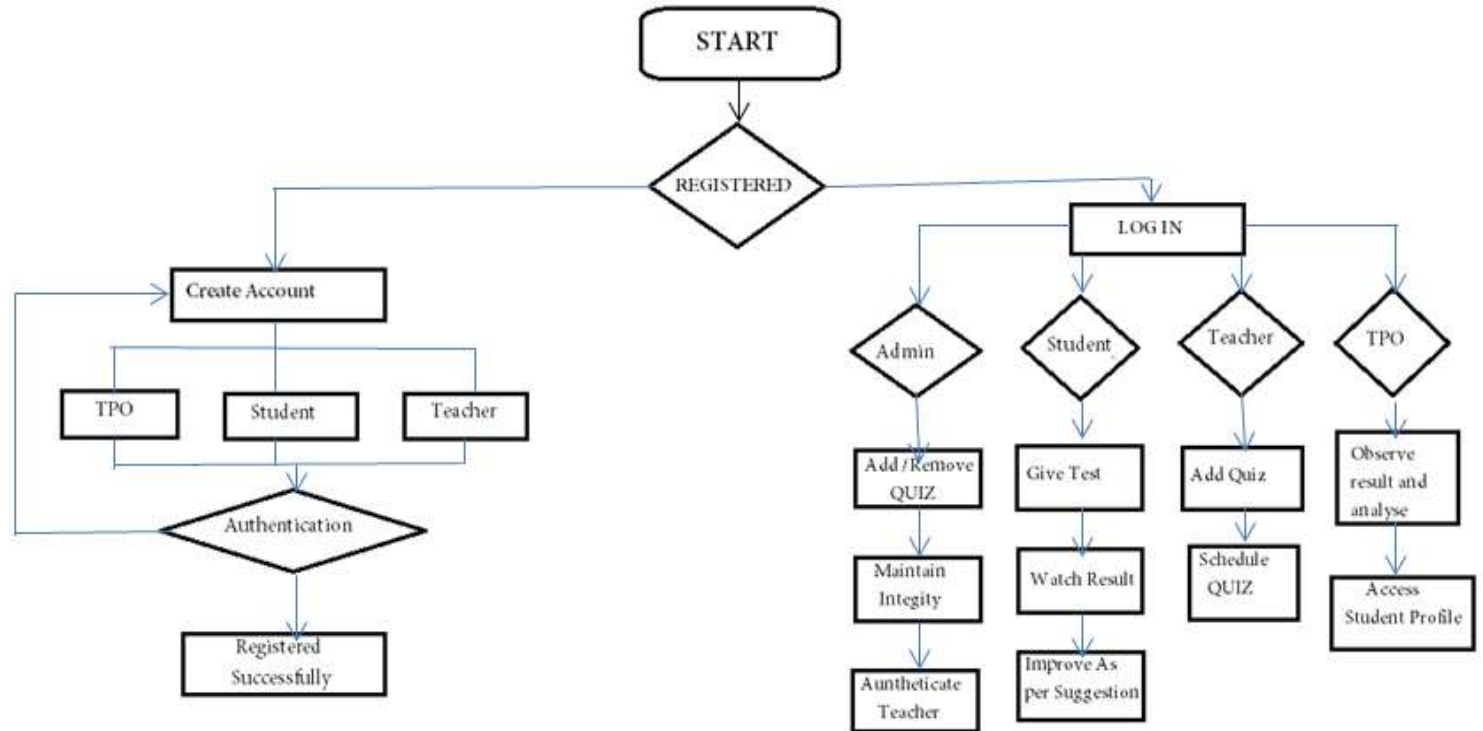
1)HTML-Provide structure to web page.

2)CSS -To build layout of web page.

3)JavaScript -Set behavior of web page.

4)PHP - To access and connect to database.

5)mySQL - Query to create database.

C   Hardware Tools Required

Laptop/PC

Internet

IX   Structure of program

X   Conclusion

Software will help to generate proper results about skills of candidate and give suggestions related to his/her required skills to develop. Software can be used to develop a test for candidate using criteria specified by our research. When test conductor upload result on software. Result get tested by specified constraints on our software. Using our suggestions candidate can able to develop his/her skill.

By using user login all the results of that candidate get stored and after another attempt improvement or any failure will be shown after comparison of all previous result.

XI   Future Development

In future new aspects related to specific skill may get added. Suggestions related to skills development get updated

In future the system itself take test and then provide report based on that.

XII　Reference

www.Bootstrap.com

https://www.researchgate.net/publication/271132430

www.youtube.com

Empowering Engineering Students Through Employability Skills
Urvashi Kaushal
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