Volume: 07 Issue: 05 | May 2020 www.irjet.net

e-ISSN: 2395-0056 p-ISSN: 2395-0072

Development of Online Examination Platform for Better Evaluation and Monitoring

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Abstract *-Online* Examination System is a web application in which any user can login to give test in a specified time. And the test is evaluated and result is shared for the same with the user. The user can simply give test by signing in connected through the internet or intranet on the system. The test can be subjective or objective. Also one can conduct the particular test of his choice on our portal. The login system will be there secured by password and ability to save the answers given by the candidate along with questions.

Key Words: Admin Login Page, Admin Dashboard, Student Login Page, Student Dashboard, Examination Page, Online Examination System.

1. INTRODUCTION

Nowadays, Online Examination has become a fast growing examination method because of the advantage of speed and accuracy. It also needs less manpower for the evaluation. Almost all organizations are conducting their objective exams through online, it saves time in examinations. Organizations can easily monitor the performance of the student that they give in an examination. As a result of this, organizations are releasing results in very less time. It also helps the environment by reducing paper work. Since the traditional have many drawbacks such as time consuming, difficulty of analysing the test manually, more observers are required to take exam of many students, results are not accurate since calculations is done manually. In an online examination, student will get their user id and password which is already saved in the examination server. On the certain time student gets the message to start the examination. All answers given by student are saved into the server with his profile information. Online examination system also allows to correct the answer if the examiner needed to change any answer in the examination time duration, however, after the time duration any change will not allow. This also make easier to evaluate the exam as computers are more accurate than man and provide fast results too. Online examination content providers focus on creating effective assessment questions and focusing on exam's feedback delivery to the students. This involves submission of answers, computerized grading, and getting result after submission. The admin, instructor and students who are attending the online examination can communicate with the system through this project, thus facilitating effective

implementation and monitoring of various activities of Online Examinations like conducting Exams as per the scheduled time and delivering result to that particular user or student. And the details of students who attempted Online Examination are maintained in the database controlled by administration.

2. Literature Survey

Literature survey basically analyze the detail of the project and also checks for the background of the current project which helps to find out the defects and ineffectiveness in the existing system and guides in solving the problems occurred. There are many researches have been done focusing on the topic of online examination portal. (Zhang et. al.).

This system allows user to take tests online. This project assesses students by conducting online tests. This will enable educational institutes to conduct test and have automated checking of answers based on the response by candidates.

Some of the tasks that system provides are, it allows faculties to create their own tests. It would enable educational institutions to perform tests, quiz. It asks faculty to create his/her own set of questions. Faculty then creates group and adds related students in the group. Further the tests are associated with specific groups so that only associated students can appear for the test. The result of the response would be available to the faculty of the question set.[5]

The another one evaluates the examiners and the exams are highly customizable. Responses by the candidates were checked automatically and instantly. (Arvind Singh, Niraj Shirke, Kiran Shette).[4]

To understand this deeply here are some previous researches such as, a proposal for online examination system consist of two models, those are client and web server model (Ping Guo Et. Al.).[7]

A system is proposed named as examination management system which have the all basic features like managing examination, evaluation of students answers, conduction of examination and it also includes auto mark for the submission, secure login. (Rashad Et. Al.).[8]

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A web-based online portal was developed as Computer Based Test System to overcome the challenges and issues came across in the conduction and management of examination. (Fagbola Et. Al.).[10]

3. Methodology

We are following Scrum methodology due to its advantage of envisioning and speculating the idea instead of developing a prototype and we can explore it andadaptit and if found any new solution we can go back to speculation and exploration anytime.

3.1 System Design

The online examination portal uses client/ server architecture. Through a web browser can connect to local host with the server where PHP and MySQL in the server side are responsible for conducting exams processes and save and return data from database.

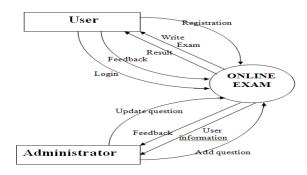


Fig-1:System Overview

3.2 System Activities

Designed Login System as admin and student login. Admin can login using admin name and password. Logging is successful only if the entered credential is matched with the stored information, else an error message will be displayed. And Login as student, the information of each student will be stored by the admin as the registration process, through this way the particular student can log on to the system without undergoing to the process of registration. Logging is successful only if the entered credential details is matched with the stored information in database, else an error message will be displayed. Admin activities involves Question Management like adding question, deleting question, updating any question by adding answers with them and Student Management like Registering students, Deleting students and result Management. Similarly there is Student Activities like Appear for the exam a group of questions will be displayed to him to start and give an exam and get the result after answering all the questions in a specified time.

3.3Database Design

It is essential to make sure that the database is well designed using MySQL server technology. The initial step in designing was to decide, according to the requirements and specifications of the project, which tables should be

created, and what type of information each one should hold.

e-ISSN: 2395-0056

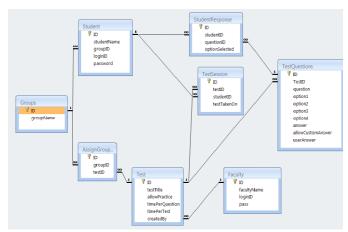


Fig-2:Database Design

3.4 System Implementation

The general specification of the online examination portal (OES).

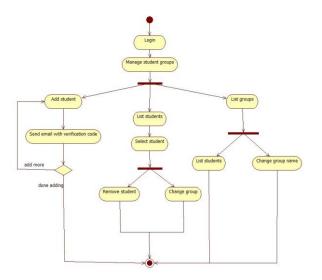


Fig-3:Activity Diagram

3.5 System Interface

The system allows users to login in two ways either as an admin or student and interact with the system.

3.6 Result

Admin page is designed, by logging in he can control his activities of adding and deleting of students. He can manage the scheduling of exams and adding of questions with answers. Get information about any student registered and manage his/her profile.

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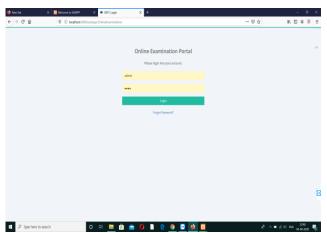


Fig-4: Admin Login Page

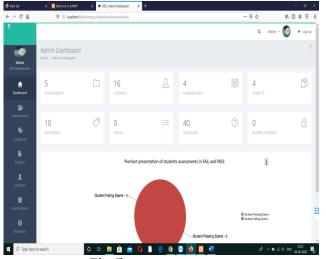


Fig-5: Admin Dashboard

Similarly there is student page, by logging in he can view his/her profile, give exams and see the results. Through this the student can see all the previous exams results and information about upcoming exams.

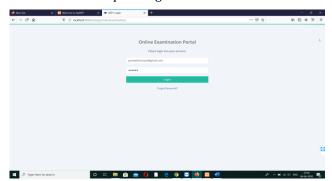
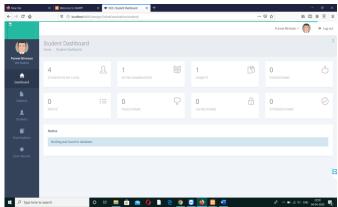


Fig-6: Student Login Page



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Fig-7:Student Dashboard

Then there is examination page where student will be able to give his/her exam.

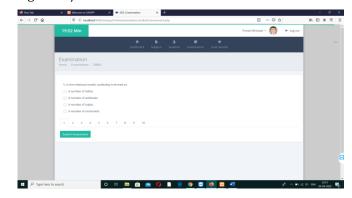


Fig-8: Examination Page

4. Conclusion

The proposed Online Examination Portal can be easily adopted by universities and institutions in order to make the exam more secure and more flexible. The system is divided into two main systems as student and administrator that are designed to give the system maximum benefit by demonstrating carefully each subsystem service. The administrator can easily manage the activities of managing the students, questions and results. Thus the proposed system is easy and flexible because each subsystem can be handled separately without influence on other system. The examination result can be generated easily after the exam ends and will reduce the evaluation time. And in future we can add the learning material like videos study material as the world is becoming digital so this system will help in learning from anywhere and can give exams.

ACKNOWLEDGEMENT

The authors would like to extend their esteemed thanks to Mr. Sundeep Raj, Professor, IT Department, IPEC. Special thanks to Dr. Pooja Tripathi, HOD, IT Department, IPEC.

Volume: 07 Issue: 05 | May 2020 www.irjet.net

f Engineering and Technology (IRJET) e-ISSN: 2395-0056 www.irjet.net p-ISSN: 2395-0072

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