



e-ISSN: 2319-8753 | p-ISSN: 2347-6710

IJRSET

International Journal of Innovative Research in
SCIENCE | ENGINEERING | TECHNOLOGY

INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN SCIENCE | ENGINEERING | TECHNOLOGY

Volume 10, Issue 11, November 2021

ISSN INTERNATIONAL
STANDARD
SERIAL
NUMBER
INDIA

Impact Factor: 7.569

9940 572 462

6381 907 438

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A Web-based Online Examination System – A Computer-Based Test System

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ABSTRACT: The online exam system is an online test simulator which consists of taking the online exam, testing efficiently and without wasting time manually checking the test copy. The main objective of this web-based online exam system is to effectively assess the student in depth through a fully automated system which not only saves a lot of time but also provides fast and accurate results. The online exam system helps students provide a quick and easy way to take the test. It also provides results immediately after the exam with 100% accuracy and confidence.

KEYWORDS: Online Exam, ASP.NET, Web-base Exam, SQL.

I. INTRODUCTION

Knowing the capabilities of engineering students requires observing the performance of students in a particular task, using end-of-term written assignments in this direction to complete this task is not trivial. These assignments may not be sufficient to test the student on all the conceptual requirements of his field. Just taking courses and taking the final semester exam cannot help us know the level and level of a student. In this research, we created an online exam system for the OBE (Outcome Based Education) system. The online examination system is an electronic application. This framework will help the Institute / University Institution to evaluate the survey has a different alternative with a good response. All these jobs are completed from the machine. All information is stored on the server. In addition, clients can access these databases and take the exam. Here we are using a client-server model. It provides executive access to instructors and substitutes. ILUMS who have an account on the framework will have the ability to give the exam. The online college exam for math, physics, and information engineering is the crucial part of online education. It is quite efficient and fast and reduces the large amount of material resources. The examination system is developed on the basis of the web. Examination System was helpful to separate teaching and testing. It promoted teacher to make the lesson planning teach in the class carefully. It was also an important means of evaluating the teaching effect. Otherwise, it stimulated students to conscientiously study and attend a lecture, to do their homework independently. Therefore, the Examination System could improve the teaching level by providing better technical support. Within the Examination System we developed, the teacher could set the score and number of different types of question according to their need. And then, the Examination System generated an exam paper randomly in accordance with the requirements. Finally, the paper in standard format and its answer could be out putted. Taking into account the development of course content, the Examination System could easily update and add questions, to make the teaching content developing with the technology synchronously. The Examination System also provided online testing capability for students. Students could log in the system at any time in the campus network, test themselves, understand their learning level, and adjust their learning progress.

II. LITERATURE REVIEW

With the researcher, he developed the Blooming Anatomy (BAT) tool. This provides special rules for multiple choice questions (MCQs) on the anatomy of flowers. Bloom's orderly levels judge and improve consistency.

The exam process is an important activity for institutions to assess student performance. Therefore, the quality of the exam questions would determine the quality of the students produced by the institutions, and the preparation of the exam questions is challenging, tedious and time consuming for instructors. Current technologies help instructors classify question banks into computer databases. The problem that arises is how current technologies would also help instructors to automatically generate the different sets of questions every now and then without worrying about repeating and duplicating the passing exam as the bank d exams are increasing.

He showed an online web application based on bloom taxonomy in IT education, from this portal we found each student's level and identified each student's weaknesses based on bloom taxonomy levels. This article demonstrates the



use of Bloom's taxonomy to probe a given item and the use of gauge models in addition to this assessment. This article describes the technique for using the past cues of a surrogate and the substance of the survey document to organize the survey document at a particular level using the required indicators of cognitive territory and overhead projection use. direct to vision.

III. OBJECTIVES

- 1) The main objective of the online exam system is to help companies / institutions to take exams for an unlimited number of candidates at a time, in an automated way.
- 2) Reduces the time consumption and workload that exists in the current examination system.
- 3) It also makes it possible to memorize the file of each examination and the results are also stored in the system.
- 4) The questions are shuffled in random order so that the chances of getting questions in the same order for students sitting nearby are much smaller.
- 5) There is no restriction that the supervisor must be present when students take the test. The analysis of the results is very simple because it is carried out by the system.

IV. METHODOLOGY

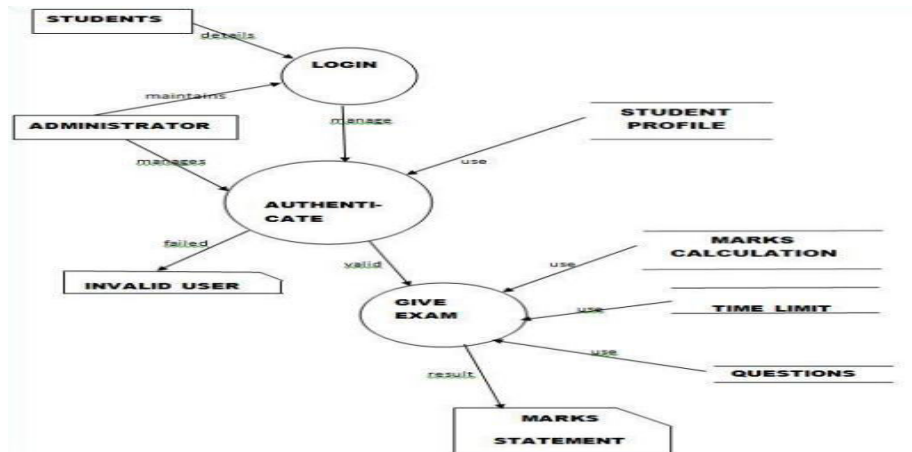


Fig-1:- Flow Diagram of Online Examination System

- 1) The modern computer system is developed with the aim of overcoming the drawbacks of the existing manual system.
- 2) The proposed system has many advantages. People from different parts of the world can register very easily.
- 3) The new system is more personalized. It's a maze for all new users to figure out all the options very easily.
- 4) It is carried out in a simple and fast referential manner. Access to all important matters is not always blocked and can be easily opened in an emergency.
- 5) The advantages of the proposed system are that security is maintained in the new system.
- 6) The security of all important data remains confidential. Since it is easy to understand and use, quick entries can be made in this system.



V. RESULT & DISCUSSION

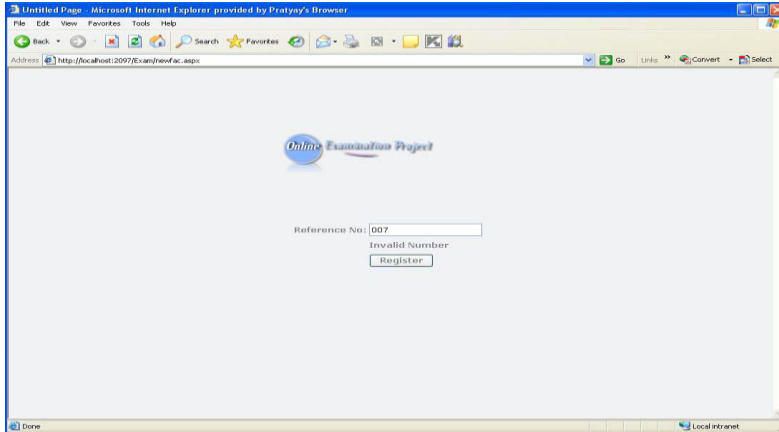


Fig 2:-Faculty Module

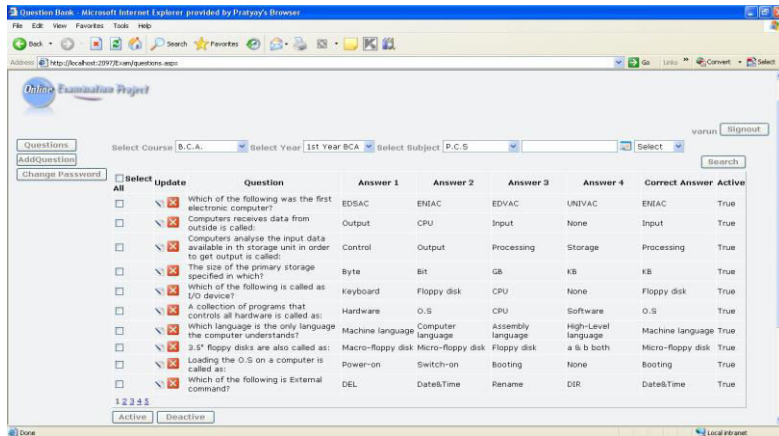


Fig 3:-Student Module

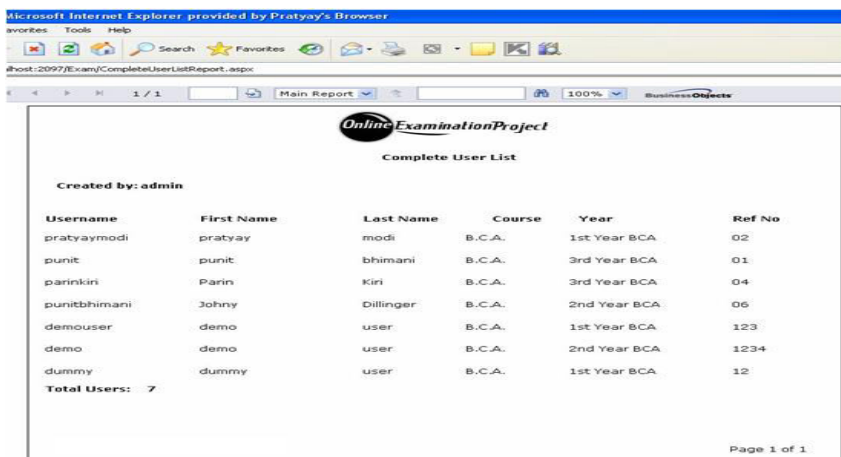


Fig 4:-Reports



FIELD NAME	DESCRIPTION	CONSTRAINTS	SIZE	DATA TYPE
Question_ID	unique question id is given to each question	Primary Key	3	Integer
Sub_ID	subject id in which the question is listed	Foreign Key	3	Integer
Question	question	Not Null	100	Varchar
Answer1	first option for the question		50	varchar
Answer2	second option for the question		50	Varchar
Answer3	third option for the question		50	Varchar
Answer4	fourth option for the question		50	Varchar
Correct_Answer	correct answer to the question		50	Varchar
Created_Date	question created by faculty			Date Time
Created_By	date the question was created		10	Varchar
Modified_By	question modified by faculty		10	varchar
Active	is the question active or not	Not Null		Bit

Table No: 1 Data Dictionary

VI. FUTURE SCOPE OF THE PROJECT

We have prepare new system after identify issue in existing manual examination system. Scope of this online examination system is very broad in terms of other manually taking exams. However we can improve our system in next version like.

- Linking of other online site
- Include graphical and media file as question and answers

Use of JQuery for more smooth interface

VII. CONCLUSION

In today's global of education, the primary attention of a train is to assist the scholars acquire the studying targets of the route this is being taught. The train attempts his nice to apprehend the thoughts of the scholar and to result in the subject's standards into the scholar's younger brain This Web Application presents facility to behaviour on-line exam worldwide. It saves time because it lets in wide variety of college students to present the examination at a time and presentations the consequences because they take a look at receives over, so no want to look forward to the result. It is robotically generated with the aid of using the server. Administrator has a privilege to create, regulate and delete the take a look at papers and its specific questions. User can register, login and provide the take a look at together along with his unique id, and may see the consequences as well.



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