

Online Examination System Using Fingerprint and PHP language of Genetic Algorithm

¹Mohammed Aryan Kazi, ²Mangesh Narkhede, ³Shahzeb Shaikh

⁴Mr.D.A.Jakkan

^{1,2,3}Electronics and Telecommunication Engineering, Trinity Academy of Engineering, Pune, India

ABSTRACT

Online Examination System is a web based system where exams are conducted by the process of e-education i.e. conducted by the help of internet. Online examination is the system which involves three main elements i.e. the admin, invigilator & the student. Through a particular center via internet service. The main goal of this online system is to effectively evaluate the student as well as invigilator through a totally automatic system which will show the exact condition of the student, invigilator as well of the examination center directly at the main controlling center as the examination. This paper proposes an Online Examination System that addresses all the elected features to facilitate adopting online examination. Online Examination System is based on spiral model and TCP-IP student/server networking and implemented using PHP programming language and Derby database. Finally, a comparison of the proposed Online Examination System versus other related works to distinguish its unique features, an finally monitoring and reporting mechanisms for the entire system. Online Examination Conducting System is very useful for Educational Institute's to prepare an entire exam, save the time that will take to check the paper and prepare mark sheets. E-Examination system will help to the educational Institute to test students and development their skilled.

Keywords: Examination system, PHP language, e education, Genetic algorithm, Fingerprint.

I. INTRODUCTION

As the time has changed and getting change day by day; technologies are introduced and in comparison to the technical world; In education, the concept of E-Learning (Electronic Learning) has grown rapidly from distance learning to virtual class are as towards the online courses and online examinations. An association is trying to move from a paper-based environment to a paperless environment. Community today through big and small tests, with test having become frequently faced issue in addition, the testing system merits at being fair and open. With the increasing of Internet applications area, computer net-assisted teaching is becoming a focus of current educational reform. An Online Examination System became of its easy to use time-intensive, forms and other features have more attention, man-power is less. In present time Online Examination System has become a fast growing method of examination due to improve the standards of student's examination whereas in the traditional examination systems pen and paper are used which require more creation on the part of students and mentor. Online examinations were considers an important source for university exam and college exam.

Likewise, the development of network technologies has given the possibility to deliver the exams online. Thus education can assist from these services are many promote for adopting Online Examination System.

II. LITERATURE SURVEY/BACKGROUND

A variety of research focuses on the subject of an online test system, these actions can be demonstrated as: SIETTE: Gujman and Conejo(2005) presented an Online Examination System called System of Intelligent Evaluation using Test for Tele-education (SIETTE).SIETTE is a internet based environment to generate and construct adaptive tests. They provide online test system in the universities. This is a internet based system developed in PHP and MySQL. The test consists of multiple choice questions of different types. Selecting question in view the appropriate importance for different subject is randomized. Answers are evaluated and scores obtained in a database along with the answer given by the student. The examiner can get immediate result in different form-common markers, detailed general mark lists.

- The login systems should be there & secured by the prefect password.
- Should have the ability to save the answer given by the student along with the question.
- Availability of answer checking system.
- Updated profile and logout after the completion

The Timetabling Genetic Algorithm is the major component of our application and project which produces the timetable for even / odd semester as the output. The Timetable generation system takes various inputs from the end-user such as department, semester, roll no etc. This all are as a input for timetable generation, we designed the timetabling generating genetic algorithm reduces time consumption and he pain in framing the timetable manually-

Date	Start time	End time	ID	Subject	Sec	num Students	Room	Sign
01-03-2012	09.00	12.00	236-210	PRINCIPLES OF ENG GEOLOGY	01	57	S817	X
01-03-2012	09.00	12.00	230-342	CHEMICAL ENGINEERING LAB I	01	43	S817	O

~	~	~	~	~	~	X	O	X	O	X
~	~	~	~	~	~	X	O	X	O	X
~	~	~	~	~	~	X	O	X	O	X
~	~	~	~	~	~	X	O	X	O	X
~	~	~	~	~	~	X	O	X	O	X
~	~	~	~	~	~	X	O	X	O	X
~	~	~	~	~	~	X	O	X	O	X
~	~	~	~	~	~	X	O	X	O	X
~	~	~	~	~	~	X	O	X	O	X
X	O	X	O	X	O	X	O	X	O	X
X	O	X	O	X	O	X	O	X	O	X
X	O	X	O	X	O	X	O	X	O	X
X	O	X	O	X	O	X	O	X	O	X
X	O	X	O	X	O	X	O	X	O	X

Figure.1 Result of S817 Area

III. PROPOSED WORK/SYSTEM

The modern automated system is developed with the aim to overcome the drawbacks of existing manual system. We have study manual examination system of XYZ college and identify possible automation. The proposed system has got many advantages were People from different parts of the world can register very easily. The new system is more automated. It is made in such a manner that the entire new student can understand all the options in it very easily. It is made in a quick and easy referential manner. Access to all important matters were not always locked and can be opened easily at the time of urgency. The advantages of proposed system were that security is maintained in the new system. Securities for all necessary data are maintained off the record as it is easily understandable and user friendly, quick entries can be made in this system provides complete online web based solution, including student registration, tests, storing of results.

Complete web based administrator can manage examination & question bank from web interface.

- No geographical boundary
- Student can deliver examination from anywhere of the world.
- 100% accuracy in result calculation
- Randomization of question set

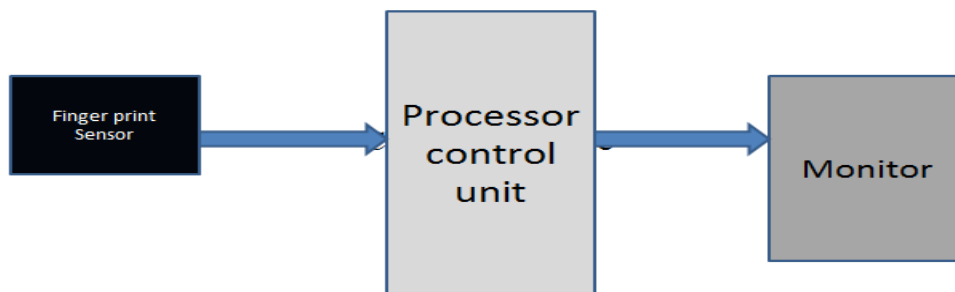


Figure.2 Block Diagram OF Online Examination System using Fingerprint and PHP language of Genetic algorithm

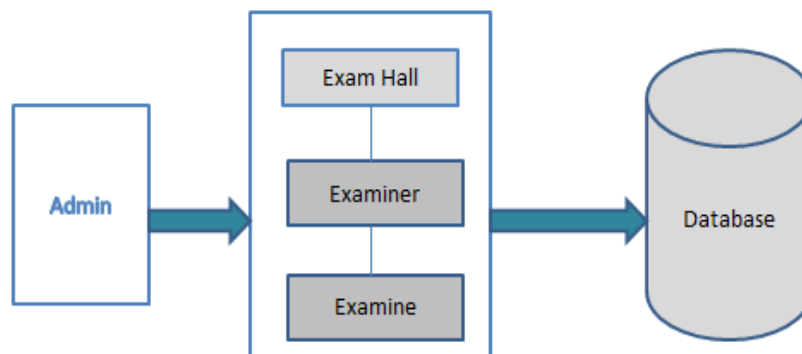


Figure.3 Processor control unit

IV. RESULT AND DISCUSSIONS

A design and application of online exam system is carried out in this paper. E-examination exam technique is a student's diversion and encouragement loss that is led by the questions with quite lower hardness level than his/her efficiency is prevented in addition, negative effects of questions requiring higher knowledge than his/her proficiency over a student's self-confidence and morale are dismissed. Since questions remain specialized so that they can allow making clear reasoning about student's gains and they are able to detect student competencies more effectively.

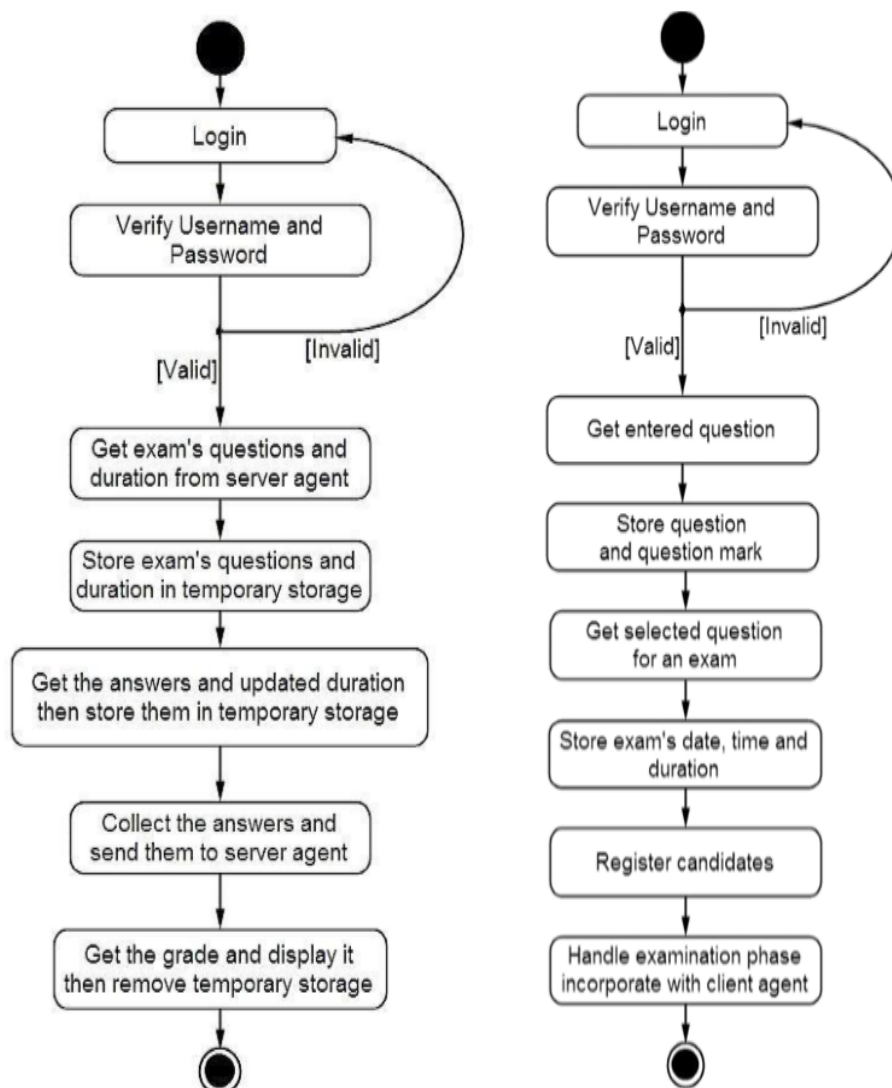


Figure.4 Data Flowchart

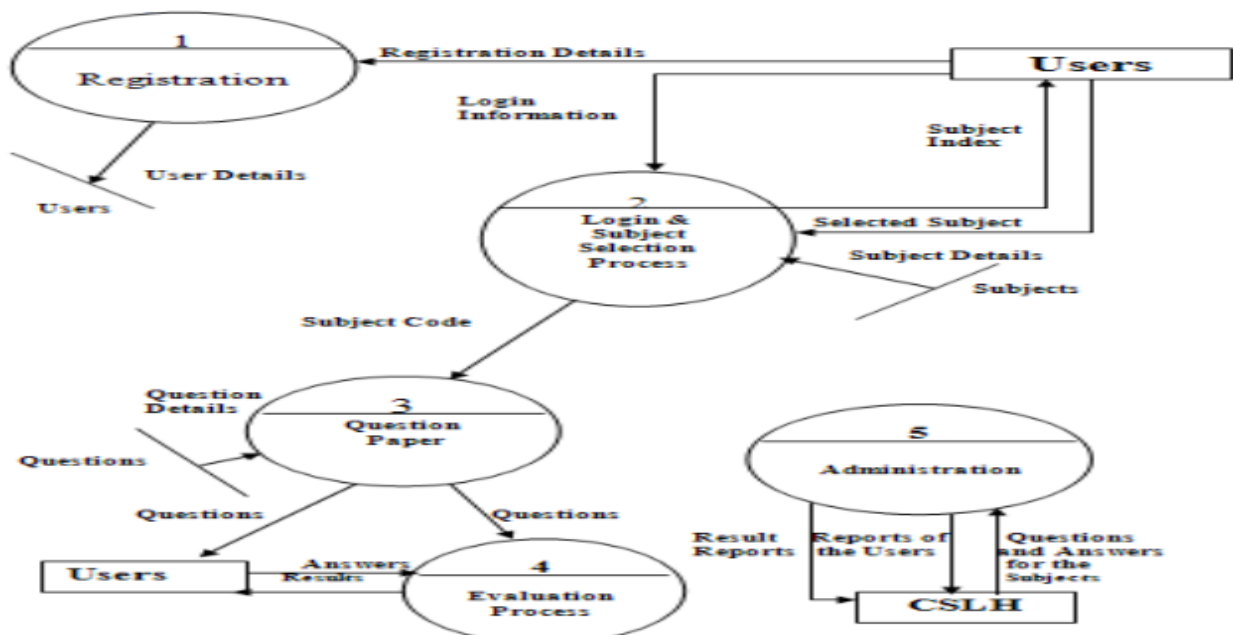


Figure.5 Architecture of Online Examination System using fingerprint and PHP language of Genetic Algorithm

V. CONCLUSION

Online Examination System is a kind of system which cannot be replaced by other method due to the less manpower. In present time we need more time saving and more accurate examination system as the competition among the people is increasing day by day; and as the number of candidates are increasing day by day the examination needs more attention and for saving attention an invigilator is needed the online examinations system.

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