Online Examination System

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Abstract

Online examination system consists of facilities to examine the skills of candidate ,those who are coming to join in the institution/company. The examination consists of various levels. The complexity of questions increases from one level to its higher level .Candidates get only one chance to attend questions in all levels except in first level. In the first level there will be a maximum of two questions. If the answer to the both question is false ,then the candidate cannot proceed to the next level. The total score of candidate will be displayed at the end of examination and certificates will be issued to candidates. This system is found to be efficient to check the candidate skills deeply with minimum effort and time.

Key words: Online examination system

Introduction

The system is mainly used to test the skills of candidate who wish to join the company/institution etc. The examination consists of registration of candidate ,selection of topic, certificate preparation ,report generation, searching of particular record etc. Examination consists of five levels. At first level candidate will get two chances. In all other level candidate only get single chance. If the candidate attended first question successfully ,then he can go to next levels .the total score will be displayed after finishing the examination.

This system is developed in visual basic and can run in any windows platform It provides the flexibility and user interface. The file organization system of visual basic is done using relational database management system and we can retrieve data from more than one table at a time. So briefly this is facilitated with good user interface and relational retrieval of data.

Problem Definition and Methodology

The aim of this online examination system is to test and measure the skills of candidate deeply within a limited time period. The peculiarity of this examination with conventional examination is: In the conventional examination a student can pass even if he studied only the selected important portions of the syllabus. Because there will be predefined weightage of marks for each module of the syllabus. The examiner cannot override this predefined weightage criteria while preparing the questions. So in this type of examination the candidates who are passed in the examination may not have the deep knowledge about the topic. But in the proposed type of examination the candidate will be passed only if he has covered the syllabus in deep.

The examination begins with registration of candidates. During registration a unique register number will be given for each student. Registration is done by filling up the registration form. Topic is also selected during registration. There are five levels available in the examination .The result will be displayed at the end of examination

Work Method

The existing system is manual system which consists of different sub modules. Candidate details, Qualifications, Examination, performance .The report module consists of different modules: Candidate registration, Examination and result.

The "visual" part in Visual Basic refers to the method used to create the graphical user interface. Instead of writing so much lines of codes for each and every application and controls, it offers some application and control, it offers some pre-built objects into place on screen .Data access features allow you to create database front –end application and scalable server-side components for most popular database formats, including Microsoft Sql server and other enterprise level database. Internet capabilities make it easy to provide access to documents and application across the internet from within your application or to create internet server application. Every table

must have a column or a combination of column that uniquely identifies each row in the table .At any given time, no two rows of a table can contain the same value in that column or column combination .Another important property of relation is that tuples are unordered. A row cannot be identified by its position in the table. An attributes always , referenced by its name and never by its number. At every row-column intersection of a table there always exists precisely one value. This can also be stated as "there are no repeating groups" .A relation that satisfies this condition is said to be normalized.

Indexes that creates to provide rapid access to tables in a database .Internally database maintain a binary value called a ROWID that uniquely represents the location of each row of data in the database .A ROWID is the fastest way to retrieve a row in the database system. An index contain two entries for each row in a table .The first entry is a key value and the second is the corresponding ROWID. In your application you will often need to generate a series of unique numbers such as candidate ID number .Sequences are stored in the data dictionary and managed by database .so that two application requesting a sequence number at the same time will be given correct values .Number of views based on data dictionary tables.

The proposed system is to fully automated version of the existing system. Each and every terms from registration of candidates to certificates, should be done automatically, without having any delay with accurate information. The system should be user friendly and must be secure in terms of keeping all types of information.

The system was verified .The forms are checked out and the errors were corrected. The hidden bugs were also removed. The form candidate registration is consist of the fields name ,register number, address, date of examination and qualification .Data validations are applied in this fields also. These settings are checked and verified. The form examination consists of fields name, register number, topic, questions, level and answers. Data validations are also applied here. The form score consists of fields like name, topic, level and result. All these settings are created by applying some conditions.

Conclusion:

Online examination system is a user friendly system, which is very easy and convenient to use. The system is complete in the sense that it is operational and it is tested by entering data and getting the reports in proper order. But there is always a scope for improvement and enhancement. During the development of this ,coding standards are followed for easy maintainability and extensibility.

References :

Web sites: www.googlescholar.com, www.wikipedia.com