**Software Requirement Specification (SRS) for Online Exam System**

**1. Introduction:**

Online Examination System is a software application which allows a particular company or institute to arrange, conduct and manage any objective examination via online. The purpose of this application is to conduct and process various types of certificate/non-certificate exams at different centers across any country via online.

**1.1) Purpose:**The purpose of the project is to provide online facility to *Institutes*to conduct online exams and to Students to give online exams. Institutes can enter and edit the questions along with the students list. Also they can view the result. Students can login and give their respective exams and view their score then and there.

**1.2) Scope:**The website to conduct online examination is “**OnlineExamination”.**. The institute provides questions along with positive and negative marks. Institute also enters the list of eligible students. All the information entered can be later edited by the institute.

In turn student can login with their id, name to give the exams and can view their result then and there. Institutes can also view the result of their students.

**2. Overall Description:**

In Online examination system institute can register to conduct an online test and view the records later. Students can give the test and their respective records, which include their marks for each test given by them, will be maintained separately. student can take a particular exam more than once.

**2.1 Product** **Perspective:**

**2.1.1 User interfaces:**

The application will have a user friendly and menu based interface.Following screens will be provided:

* A login screen for entering the username, password will be provided. Access to different screens will be based upon the user.
* There is a screen for displaying information menu regarding what options the teacher will select while filling entries (entering questions, student list, deleting questions, adding course,subjects).
* There is a screen for displaying exam details to the students when they are taking exams.
* There is a screen for displaying of results of students after taking the exam.

**2.1.2 Hardware interfaces:**

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* Operating System: Windows 9x or above, MAC or UNIX.
* Processor: Pentium III or 2.0 GHz or higher.
* RAM: 256 Mb or more

**2.1.3 Software interfaces:**

* **Client Side:** .HTML, Web Browser, Windows XP/2000/Vista
* **Web Server:** .HTML, Windows XP/2000/Vista

**2.2 Product Functions:**

The website will allow access only to authorised users with specific roles (Administrator- maintains the website, Teacher-Register to conduct the exams, Students-Give the exams online) A summary of the major functions that the website will perform:

a. Provide facility to institutes to register to conduct an online test.

b. Institutes can enter the number of questions, questions and answers and the list of eligible students.

c. Students can login and give the tests.

**2.3 User Characteristics:**

a. Educational level: Users should be comfortable with the English language.

b. Experience: Users should have prior information regarding the online examinations.

c. Skills: Users should have basic knowledge and should be comfortable using general purpose applications on computers.

**2.4 Constraints:**

\* Since the DBMS being used is MS Access 2000, which is not a very popular DBMS, it will not be able to store a very huge number of records.

\* Due to limited features of DBMS being used performance tuning features will not be applied to the queries and thus the system may become slow with the increase in number of records being stored.

**3. Specific Requirements:**

This section provides software requirements to a level of detail sufficient to enable designers to design the system and testers to test the system.

**3.1 External Interface Requirements:**

\* User Interfaces:

**\*Teacher Registration Screen:**Various fields available on this screen will be:

\*Login Name

\*Email Id

\*Phone Number

\*Password

**\*Teacher Login Screen:**Fields available on this screen are:

\*Login Name

\*Password

**\*Student Login Screen:**Various Fields are:

\*Login Name

\*Password

\***Student Taking Exam Screen:**Various Fields are:

\*Display Of Question With Options

\*Control Buttons To switch questions

**3.2 Software Product Features:**

* Validity Checks: JavaScript provides validity checks for various fields in the forms.
* Sequencing Information: All the information regarding exam details, student list, question details, display of result should be handled sequentially that is data should be stored only in a particular sequence to avoid any inconvenience
* Error Handling: If any of the validations or sequencing flows does not hold true thenappropriate error messages will be prompted to the user for doing the needful.

**3.3 Performance Requirements:**This subsection specifies numerical requirements placed on the software or on the human interaction with the software, as a whole. Numerical requirements will include:

\*Only text information will be supported (HTTP)

\*All the transactions will be processed within seconds.

## 3.4 Requirement Specification:

## On the basis of  system study performed in an organization about all the functions that deals with Online examination following requirements are specified.

**3.4.1 Functional Requirements :**

The Functional Requirements of the project are as follows:

* To provide the functionality to students to appear for the exam online.
* To provide login interface through which only authorized user can pass by.
* The timer facility should be provide once the student appears in the Exam.
* The  web application provide  question to the student randomly.
* This system should handle multiple exam at the same time.

**3.4.2Non-Functional Requirements:**

**The Non-Functional Requirements of the project are as follows:**

* The system should be reliable and robust.
* The system should be User friendly.
* The system should be completely Consistent and Secure.

## 3.5 Context Diagram:

This diagram represents what are the bounders and scope of **On-Line Exam** **System** project. It describes the main objective of the system and its entities involved.

**On-Line Exam system**

**Administrator**

**Student**

**Teacher**

**The Administrator can be done the following:**

* Create/delete accounts (add a list of faculty names and list of his student)
* Change password for Faculty/Student
* Create/ delete/update courses/subject.

**The Teacher can be done the following:**

* Change password.
* Insert questions.
* Specify the answers.
* Create/ delete/update courses/subject.

**The Student can be done the following:**

* Change password.
* Choose exam.
* Review answers.
* See his exam mark

**3.6 USECASE:**

