Software Requirements Specification

for

Online Examination System

Version 1.0 approved

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SRH

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# Introduction

## 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. Others can view sample papers to get look and feel of the online examination system.

## Document Conventions

<Describe any standards or typographical conventions that were followed when writing this SRS, such as fonts or highlighting that have special significance. For example, state whether priorities for higher-level requirements are assumed to be inherited by detailed requirements, or whether every requirement statement is to have its own priority.>

## Intended Audience and Reading Suggestions

<Describe the different types of reader that the document is intended for, such as developers, project managers, marketing staff, users, testers, and documentation writers. Describe what the rest of this SRS contains and how it is organized. Suggest a sequence for reading the document, beginning with the overview sections and proceeding through the sections that are most pertinent to each reader type.>

## Product Scope

The website to conduct online examination is “OnlineExamination”. This website provides facility to institutes to conduct online exams by providing a unique id to each institute. 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 and instituteid to give the exams and can view their result then and there. Institutes can also view the result of their students.

## References

IEEE Recommended Practice for Software Requirements Specification- IEEE STD 830-1993. www.google.com

# Overall Description

## Product Perspective

1. User interfaces

The application will have a user friendly and menu based interface.

Following screens will be provided:

1. A login screen for entering the username, password will be provided. Access to different screens will be based upon the user.
2. There is a screen for displaying information regarding entries to be made by institutes.
3. There is a screen for displaying information regarding filling of exam details by institutes.
4. There is a screen for displaying information regarding entering student list for the particular exam.
5. There is a screen for displaying information menu regarding what options the institutes will select while filling entries (entering questions, student list, deleting questions, entering exam details).
6. There is a screen for displaying exam details to the students when they are taking exams.
7. There is a screen for taking exam for the students.
8. There is a screen for displaying of results of students after taking the exam.

## Product Functions

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

1. Provide facility to institutes to register to conduct an online test.
2. Institutes can enter the number of questions, +ve, -ve marks, questions and answers and the list of eligible students.
3. Students can login and give the tests.

## User Classes and Characteristics

1. Educational level: Users should be comfortable with the English language.
2. Experience: Users should have prior information regarding the online examinations.
3. Skills: Users should have basic knowledge and should be comfortable using general purpose applications on computers.

# External Interface Requirements

## User Interfaces

The application will have a user friendly and menu based interface.

Following screens will be provided:

1. A login screen for entering the username, password will be provided. Access to different screens will be based upon the user.
2. There is a screen for displaying information regarding entries to be made by institutes.
3. There is a screen for displaying information regarding filling of exam details by institutes.
4. There is a screen for displaying information regarding entering student list for the particular exam.
5. There is a screen for displaying information menu regarding what options the institutes will select while filling entries (entering questions, student list, deleting questions, entering exam details).
6. There is a screen for displaying exam details to the students when they are taking exams.
7. There is a screen for taking exam for the students.
8. There is a screen for displaying of results of students after taking the exam.

## Hardware Interfaces

1. Support for printer for printing results then and there.
2. Screen resolution of at least 800X600 is required for proper and complete viewing of screens. Higher resolution will be accepted.

## Software Interfaces

1. Any windows based operating system.
2. MS Access 2000 as the DBMS-for database.
3. IDE (NET BEANS) for developing code.
4. Communications interfaces None
5. Memory Constraints At least 512 MB RAM and 5 MB space on hard disk will be required for running the application.

(xv) Site Adaptation Requirements Web browser with cookies enabled.

## Communications Interfaces

None

Requirements should be concise, complete, unambiguous, verifiable, and necessary. Use “TBD” as a placeholder to indicate when necessary information is not yet available.>

<Each requirement should be uniquely identified with a sequence number or a meaningful tag of some kind.>

REQ-1:

REQ-2:

# Other Nonfunctional Requirements

## 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:

\*300 terminals will be supported at a time

\*Only text information will be supported (HTTP)

\*All the transactions will be processed within seconds.

## 4.2 Security

Application will allow only valid users to access the system. Access to any will application resource depend upon user’s designation. There are two types of users namely Administrator and Student . Security is based upon the individual user ID and Password.

## 4.3 Reliability

The application should be highly reliable and it should generate all the updated information in correct order.

## 4.4 Availability

System will be available around the clock except for the time required for the back up of data.

4.5 Maintainability

The installation and operation manual of examination management system will be provided to user.

# Hardware Requirements

1. The application demands that all the PCs must be present in the internet

.

1. Pc should be sufficiently fast with adequate memory at least 64 MB RAM and 2 GB hard –disk space is required to run this application.

1. Screen resolution of at least 800\*600 required to properly view the screen.

1. It should be support the printers

## 6. Software Requirements

1. Any Window Operating System.

1. The PHP must be installed. For the database handling MYSQL must be installed.

1. The final application must be packaged in a set up program, so that the product can be easily installed on the clients-machine.

# 7. Performance Requirements

* The E-mail should be sent within one hour after the registration.

* The system should support registration for examination maximum of

Students.

# 8. 3. Functional Requirements

## 8.1 Description

The Online Examination System is developed for handling the activities for various users such as student, staff, exam staff. Every teacher should have laptop with wireless internet connection.

## Technical Issues

This product will work on client-server architecture. It will be require an internet server and which will be able to run PHP application. The product should be support some commonly used browsers such as Internet Explorer, Mozilla Firefox. External interfaces include key board and mouse, enabling navigation s across the screens