

Software Requirements Specification for Online Examination System

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Revision History

Revision	Date	Author(s)	Description
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Chapter 1

Introduction

1.1 Purpose

Today Online Examination System has become a fast growing examination method because of its speed and accuracy. It is also needed less manpower to execute the examination. In our country managing a examination is a huge task, it can help us to make the examination system easy to manage. Educational institutes can also easily check the performance of the student that they give in an examination. As a result of this, institutions can release results in less time. It also helps the environment by saving paper.

1.2 Intended Audience and Intended Use

The different types of reader that this document is intended for are developers, project managers, marketing staff, users, testers, and documentation writers. The rest of this SRS contains Overall Description, External Interface Requirements, System Features, Non Functional Requirements and Other Requirements. Suggested sequence for reading the document -begin with the overview sections and proceed through the sections that are most pertinent to each reader type.

1.3 Product Scope

Scope of this project is very broad compared to manually taken exams. They are:-

- This app can be used in educational institutions as well as in corporate world.
- Can be used anywhere any time as it is a web based application(user location does not matter).
- Less time consumption, as the result is calculated immediately after the test and displayed to the student/candidate.
- No restriction that examiner has to be present when the candidate takes the test.
- For students/candidates, it saves time of going to far away centers to give exams.
- No manual work of preparing and storing the result information.

1.4 Risk Definition

As it is an online application there is a chance that the result of the examination can be manipulated. As well as it can be hacked and all the data can be lost. As a online application it is connected to the internet so if the internet is down it can cause problems to the participants of the examination.

Chapter 2

Overall Description

2.1 User Classes and Characteristics

The various users of this app are classified into two types:-

- Administrator
- Candidate
 - Student
 - Corporate Employees

This app requires the user to have characteristics such as the user should be able to communicate and write in English and should have previous experience of giving an online exam. If not, the candidate should be instructed about the basics usage of the app by authorized personnel.

2.2 User Needs

User needs are:-

- There should not be any problems when the candidates are attending the examination.
- Candidates are able to see the marks.
- The system should be secured.
- Candidates are able to see the results.

2.3 Operating Environment

This app is internet based so it will run in any operating system with internet access through a web browser.

2.4 Constraints

The candidate is allowed to give the exams any number of times, until specified otherwise by the administrator while building the test. While giving the exam the candidate is given only a set amount of time and the remaining time should be displayed, after which the exam should close and display the result.

2.5 Assumptions

Proper working of this app is dependent on the internet connectivity of the users' computer

Assumptions:

- It is assumed that the user has basic knowledge of the system (i.e. he/she is not a first time user) as any action by the user is considered valid during an examination.
- It is assumed that the data entered by the user while registering is true.
- It is assumed that the candidate does not cheat during the exam as there are no supervisors around to monitor.

Chapter 3

Requirements

3.1 Functional Requirements

- 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.
- 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 system should support WAN so that exam can given from anywhere.
- This system should handle multiple exam at

3.2 Non Functional Requirements

- Performance:
The system must be interactive and the delays involved must be less .So in every action-response of the system, there are no immediate delays. In case of opening windows forms, of popping error messages and saving the settings or sessions there is delay much below 2 seconds, In case of opening databases, sorting questions and evaluation there are no delays and the operation is performed in less than 2 seconds for opening ,sorting, computing, posting > 95 of the files. Also when connecting to the server the delay is based editing on the distance of the 2 systems and the configuration between them so there is high probability that there will be or not a successful connection in less than 20 seconds for sake of good communication.
- Safety:
Information transmission should be securely transmitted to server without any changes in information
- Reliability:
As the system provide the right tools for discussion, problem solving it must be made sure that the system is reliable in its operations and for securing the sensitive details.
- Software Quality Attributes:
Availability If the internet service gets disrupted while sending information to the server, the information can be send again for verification.

- Security:
The main security concern is for users account hence proper login mechanism should be used to avoid hacking. The tablet id registration is way to spam check for increasing the security. Hence, security is provided from unwanted use of recognition software.
- Usability:
As the system is easy to handle and navigates in the most expected way with no delays. In that case the system program reacts accordingly and transverses quickly between its states.
- The system should be reliable and robust.
- The system should be User friendly.
- The system should be completely Consistent and Secure.

Appendices

Appendix A

Glossary

- OES- Online Examination System
- On-line Exam- An exam written on a website and solves the questions, also on the same website from any place by entering user name and password.
- Administrator- who is responsible to create a new course,add member or delete it;the person who control the system
- Faculty member- A teacher in the department.