Software Requirements Specification(SRS)

for

University Management System

Prepared by :

Mina ashraf zaki

Morkos Shabaan khames

Samuel Tarek Sabry

Doha sameh

Table of Contents

1. Introduction

1.1 The 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.

1.2 Intended Audience and Reading Suggestions: This website reduces the manual work, maintaining accuracy, increasing efficiency and saving time. Also institutes need not go to develop new software each time; instead they just register and admit the students online. For students, it saves time of going to far away admission centres and also they can view their Admission status then and there.

1.3 Product Scope

The website to conduct online Admission for a University is "Online Admission System". This website provides facility to institutes to conduct online Admissions by providing a unique id to each Student. The institute provides online registration of the student. 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 Programed to give the forms and can view their Admission status then and there. Institutes can also change the status of admission of their students (if needed).

1.4 References

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

1.5 Overview

The rest of this SRS document describes the various system requirements, interfaces, features and functionalities in detail.

2. Overall Description

In Online Admission system institute can register to conduct an online admission and view the academic records later. Students can fill the form and their respective academic records (softcopy), which helps the registrar to admit the student or reject as per submited records. No student can take a particular online registration more than once.

2.1 Product Perspective

User interfaces

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

Following screens will be provided:

(ii) A login screen for entering the username, password will be provided. Access to different screens will be based upon the user.

(iii) There is a screen for displaying information regarding entries to be made by institutes.

(iv) There is a screen for displaying information regarding filling of Admission form details by institutes.

(v) There is a screen for displaying information regarding entering student list for the particular program.

(vi) There is a screen for displaying information menu regarding what options the institutes will select while filling entries in the form.

(vii) There is a screen for displaying course details to the students when they are selecting program for admission.

(viii) There is a screen for submitted status for the students.

(ix) There is a screen for displaying of results of students after taking time for registrar for selecting and rejecting students in the selected list and rejected list.

Hardware interfaces

(i) Screen resolution of at least 800X600 is required for proper and complete viewing of screens. Higher resolution will be accepted.

Software interfaces

(i)   Any windows based operating system.

(ii) MS Access 2000 as the DBMS-for database.

(iii) Communications interfaces None

(iv) Memory Constraints At least 512 MB RAM and 5 MB space on hard disk will be required for running the application.

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

2.2 Product Functions

The website will allow access only to authorized users with specific roles (Administrator-maintains the website, Institutes-Register to select the forms submitted by the students, Students-Apply for admission online) a summary of the major functions that the website will perform:

a. Provide facility to institutes to register to conduct an online admission process.

b. Institutes can enter the number of programs and there course details and the list of eligible students selected.

c. Students can login and submit the admission form.

2.3 User Classes and Characteristics

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

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

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

2.4 Operating Environment

It's a responsive Website Which work on most of web Browsers Perfectly, as at is a responsive website application it can operate on mobile devices and one of its advantages that it s load 3 sec according to google website test speed

2.5 Assumptions and Dependencies

The application is online so taking into consideration that all the details are true. Students can submit application form just once.

The future versions of the website will be having a better database to handle larger number of records, in a more secure way.

Also separate profile will be maintained later for all students so that he can view all his previous academic records later.

3. External Interface Requirements

3.1 User Interfaces

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

*Login Name

*last Name

*Institute Name

*Email Id

*Password

*Password Confirmation

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

*Login Name

*Email Id

*Password

***Entering academic details:** Various Fields are:

*Programs

*Course list for each Program

Admission selected/rejected list Screen: Various Fields are:

*Student List Screen: Various Fields are:

*Student ID

*Student Name

*Student Login Screen: Various Fields are:

*Student ID

*Student Name

*Institute ID

*Result (Select/Reject)

3.2 Hardware Interfaces

***Hardware interfaces:**

*Support for printer for printing results then and there.

*Screen resolution of at least 800X600 is required for proper and complete viewing of screens. Higher resolution will be accepted.

*Software interfaces:

*Any windows based operating system.

*MS Access 2000 as the DBMS-for database.

*Communications interfaces

3.3 Software Interfaces

Any windows based operating system.

3.4 Communications Interfaces

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. <u>System Features</u>

4.1 <u>Error handling</u>

If any of the validations or sequencing flows does not hold true then appropriate error messages will be prompted to the user for doing the needful.

4.2 <u>Validity Check</u>

JavaScript provides validity checks for various fields in the forms.

4.3 <u>Sequencing Information</u>

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

5. <u>Other Nonfunctional Requirements</u>

. **Security:** Only authorized users will be able to access the website by entering the correct login name and corresponding password.

***Maintainability:** The website can be maintained in present or future. It will be easy to incorporate new requirements in the individual modules.

***Portability:** As the website is online so will be easily portable on various systems.
The website will be also easily portable on any windows based system that has MSACCESS installed.

***Logical Database Requirements:** The following information will be placed in the database:

***Organization Details:** ID, Login Name, Email, Password, Institute Name.

***Program Details:** ID, Pname, No. of Course, No. of Duration, credits.

***Institute Student List:** Sid, Sname, FormID, Result.