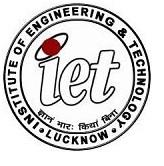
A Software Requirement Specification Report on SCHOLARSHIP MANAGEMENT SYSTEM

submitted in partial fulfillment  
for the award of the Degree of Bachelor of Technology  
in Department of Information Technology



Under the Guidance of: Submitted By:

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Project title: Scholarship management system (SMS)

Description: SMS is peculiarly built for all the government funded scholarships for the students pursuing their studies in any college. This system will process data for both application and monitoring of students. It will also serve as the database for the college of all the information submitted by the applicants and scholarship grantees. SMS will be web based application to be hosted on the college’s website.

Need and Purpose : The project “Scholarship Management System” is a web based application developed for managing student’s scholarship details, branch details and college details. The software is very helpful to find the eligible candidates from different streams in a college. The project finds the eligible candidates from students list on the basis of marks, caste, sports and income.It also aids students by reducing the amount of paperwork needed, as well as helps staff to scrutinize the application easily and effectively.

Features:

* Through the system we can easily maintain the data without any loss or damage.
* By using this system time consumption will be reduced.
* By using this website students can easily know about the information of scholarship details.
* Scholarship Officer can easily check the eligible criteria of each and every student. He can easily generate the record of students who are eligible for the scholarship.
* Scholarship Officer maintains the each and every student details.
* Scholarship Officer sends mail to eligible students about the scholarship

SYSTEM ANALYSIS

System analysis is an important activity that takes place when we attempt to build a new system or when modifying existing ones. In this phase the problems in the existing system are thoroughly studied and the new system is proposed which rectifies the errors persisted in the current system. The problems are analyzed from different point of view.

Analysis is the final stage before starting the designing of a project and hence, all the required modification should be done at this stage. Then the specification to meet the proposed system is to be produced after the analysis stage that the project persons will use it for further proceedings.

System Analysis then is the process of gathering and interpreting facts, diagnosing problems and using the information to recommend improvements to the system. Before development of any project can be pursued, a system study is conducted to learn the details of the current business situation. Information gathered through the study, forms the basis for creating alternative design strategies. Management selects the strategy to pursue.

System Analysis is about understanding situations. Effective analysis includes investigation and questioning to learn how a system currently operates and to identify the requirements for a new or modified one. For the development of any good project proper analysis of the existing system is a pre-requisite. The existing system is studied to know the extent of computerization required. Therefore, a detailed analysis of the existing system should be conducted. For this purpose, system should be broken down into various subsystems and these subsystems were analyzed closely to identify the problem areas.

2.1 EXISTING SYSTEM:

At present the college maintains manual records, in the form of registers, files, etc. to store the scholarship details of the students. New scholarships to be issued, involves heavy paper work. It also leads to data redundancy. The analysis part includes a detailed study of the existing system.

Limitations

 Time delay

 Redundancy

 Accuracy

 Information Retrieval

 Storage Media

All these are rectified in the proposed system. Much emphasis is given upon the process of customer servicing

2.2 PROPOSED SYSTEM:

The proposed computerization is developed using MySQL and php as back end and the most powerful HTML, CSS and JAVA Script as front end for the student and college who want to know his student’s scholarship details.

The proposed system has two major benefits. Once the existing system is automated all the drawbacks of the present system can be overcome. Many modifications can be made to make the atmosphere and extractions of data for generating a variety of reports are the factors, which form the basis of development of the proposed system.

In brief, the proposed system will be as follows:

 The details about the scholarship information’s are showed.

 A set of user screens will be provided for data entries and these data will be effectively stored in back end tables.

 Records can be retrieved when needed.

 Relevant details pertaining to students and college willing to know his details can do so by accessing by the user.

SCOPE:

The scope of the project is that it can be used by any college to automate the scholarship departments. Anyone having the access to the internet can access the application and can perform the operations.

Over all description: In our application we have three modules.

1. Masters/Admin (DSW)

2. Scholarship Officer (STUDENT VOLUTEERS)

3. Student

1. Masters/Admin: All scholarship departments are controlled by admin by assigning a scholarship officer for every stream in a college.

Functionality:

 Scholarship Officer: This page stores the information about all the Scholarship Officers. By this page the admin can directly add/block the Scholarship Officer and also generates user name and password to every Scholarship Officer.

 Scholarships: This page stores the information about all the types of scholarships. By this page the Scholarship Officer can directly add the scholarships, edit the scholarships, send the scholarships to eligible students, Accept or reject scholarship for students and also view the eligible students list

 Feedback: This page stores the feedback from all students. By this page the Scholarship Officer can view feedback which is sent by the students and also send reply to those feedbacks.

3. Student: This module deals with the issue of scholarship to the students. It stores all the functionalities regarding the scholarship done by the student.

Functionality:

 Scholarship: This page stores the information about the scholarship. By this page the student can view whether the scholarship is granted for him or not and it also gives the status of the scholarship whether the scholarship is sanctioned or not.

 Feedback: By this page student can send the feedback to scholarship officer and view the reply which is sent by the scholarship officer.

2. Scholarship Officer: This module stores all the types of scholarships, and the list of all the students who have applied for scholarship. Scholarships are applied by the college on behalf of the students, which are sanctioned by the Government and trusts. Each and every student scholarship details are monitored by scholarship officer.

Functionality:

 Student: This page stores the information about all the students like caste, marks, father annual income, mail id and address etc.. By this page the Scholarship Officer can directly add/block the students and also generates user name and password to every student.

4. SYSTEM REQUIREMENTS SPECIFICATION

System requirement give an idea about what are the necessary things that are needed for the proposed system, which plays a very important role in the development of any system. This chapter deals with what are hardware components that are needed for the system, application, software that is required for the development of the system and the functional requirement of the system. Frontend tools helps to visualize the system, while backend helps in activities which are not visible to the end user.

4.1 MODULES This project consists of 3 modules

1. Masters/Admin

2. Scholarship Officer

3. Student

Admin module: Functionalities:

*  Adding of college details.
*  Editing of college details.
*  Add Scholarship Officer Specific to college.
*  Set the user name and password to Scholarship Officer.
*  Block Scholarship Officer.
* Scrutinizing and sanctioning the scholarship applications

Scholarship Officer: Functionalities:

 Adding Student details.

 Block students

 Add Scholarship details and set the criteria for scholarship.

 View all students who are fulfilling the scholarship requirement.

 Send scholarship details or alerts to the eligible students.

 Accept or Reject scholarship for students.

 View feedback and send response to the student.

 Set the user name and password to Student.

 Update Profile.

Student Module: Functionalities:

The student details are given under this module.

 View all scholarship details and eligibility criteria.

 Upload scholarship documents.

 View scholarship status.

 Update profile

 Send feedback

 View response for feedback

4.2 SOFTWARE REQUIREMENTS

OPERATING SYSTEM : Windows XP Professional

ENVIRONMENT : Visual Studio .NET 2008

.NET FRAMEWORK : Version 3.5

LANGUAGE : C#.NET

WEB TECHNOLOGY : ASP.NET,HTML

BACKEND : SQL SERVER 2005

4.3 HARDWARE REQUIREMENTS

PROCESSOR : Intel Pentium 4 or more

RAM : 1 GB or more

MONITOR : 15” COLOR

HARD DISK : 40 GB hard disk recommended for Primary Partition

CD DRIVE : LG 52X

KEYBOARD : STANDARD 102 KEYS

MOUSE : 3 BUTTONS

FUNCTIONAL REQUIRMENTS

Input/output: First Admin login into the web application and add new scholarship officer into the organization, he also block scholarship officer. Scholarship officer login with his id-password and can add student details, scholarship details, edit scholarship details ,block students, send scholarship details to eligible students and he can view and reply to students feedback. Student login with his idpassword and can view scholarship details, upload documents, send feedback to scholarship officer and view response.

Storage Requirements: All the details of Scholarship Officer, student, college details and scholarship details are stored in the database and the updating of the data can be done through database (internet).

NON- FUNCTIONAL REQUIREMENTS

Usability: The system is designed with completely automated process. Hence there is no or less intervention. Reliability and Security: The system is more reliable because of the qualities that are inherited from the chosen platform Dot net. And it provides secure access of confidential data with unique id and password.

Supportability: The system is designed to be the cross platform supportable.The system is supported on a wide range of hardware and software platform

SYSTEM DESIGN

INTRODUCTION:

Systems design is the process or art of defining the architecture, components, modules, interfaces, and data for a system to satisfy specified requirements. One could see it as the application of systems theory to product development. There is some overlap and synergy with the disciplines of systems analysis, systems architecture and systems engineering.

INPUT DESIGN

The input design is the process of converting the user-oriented inputs in to the computerbased format. The goal of designing input data is to make the automation as easy and free from errors as possible. For providing a good input design for the application easy data input and selection features are adopted. The input design requirements such as user friendliness, consistent format and interactive dialogue for giving the right message and help for the user at right time are also considered for the development of the project.

The following points should consider while designing the input;

 What data to input?

 What medium to use?

 How the data should be arranged or coded?

 The dialogue to guide users in providing input

 Data items and transactions needing validation to detect errors

 Methods for performing input validation and steps to follow when errors occur.

In this project all the text boxes are validated. If any field is not filled then it will display the message “Enter the text box”. The dialogue boxes are used to guide the user while giving inputs. The list boxes are used to reduce the user inputs.

He will select one of the items in list boxes. Radio buttons are used to select the options. The following design guidelines will result in a friendly and efficient interface.

Minimize the number of input actions required from user. This can be accomplished by using the mouse to select from predefined set of inputs. In application the user can select the options by using the mouse. The user is allowed to choose priority, mode of transport using predefined set ofvalues. Maintain consistency between information display and data input. The visual characteristics of the display (e.g. text size, color etc) should be carried over to the input domain. In this project the status information are represented by different colors.

Allow the user to customize input. An expert user might decide to create customer commands or dispense with some types of warning messages and action verification.

OUTPUT DESIGN

When designing output, systems analyst must accomplish the following;

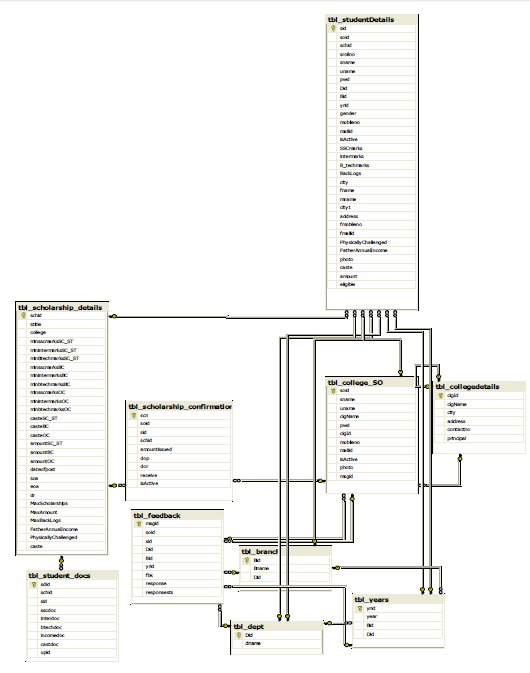
 Determine what information to present

 Decide whether to display, print the information and select the output medium

 Arrange the presentation of information in an acceptable format

 Decide how to distribute the output to intended recipient Accomplishing the general activities listed above will require specific decisions, such as whether to use preprinted forms when preparing reports and documents, how many line to plan on printed page, or whether to user graphics and color. The output design is specified on layout forms, sheets that describe the location characteristics (such as length and type), and format of the column headings and pagination. As we indicated at the beginning of this discussion, these elements are analogous to an architect blueprint that shows the location of each component.

ER Diagram



DFD

