

SOFTWARE REQUIREMENT SPECIFICATION FOR SCHOLARSHIP MANAGEMENT

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1.Introduction

1.1. Purpose

The document describes the features and behavior of a system or software applications. Its layout functional and non-functional requirement. This document that captures complete description about how a system expected to perform. It is usually signoff at the end of the requirement engineering phase. The users check all the requirements have been satisfied after the development of the software.

1.2. Scope

The system is developed for scholarship development through a website because majority of students are not aware of various scheme of scholarship applicable to them. To have a general awareness each of the school and college take active participation in the implementation to access schemes under their supervision.

1.3. Product Perspective

1.3.1. System Interface

The proposed computerization is developed using MySQL as backend and the most powerful php as frontend for the student who wanted to know their scholarship details.

1.3.2. User Interface

- Log-in page
- Register
- The details about the whole scholarship and policy of the student.
- Details of the whole students who were eligible for any type of scholarship.
- A set of user screen will be provided for data entries.
- In this record can be retrieved when needed.
- Automatic updating of new schema of student.
- Directly call the student who are eligible when they are add their details.
- Data of eligible students are accepted and directly we register the student.
- Notification about the up to data schema.
- Keep a feedback system.

1.3.3. Hardware Interface.

- ❖ Processor: Pentium 13
- ❖ RAM: 4GB
- ❖ Hard Disk: 1TB

1.3.4. Software Interface.

- ❖ Platform: SUBLIME
- ❖ Front end tool: PHP
- ❖ Back end tool: MySQL
- ❖ Operating System: Windows 10
- ❖ Server: XAMP

1.4. Product Functions.

The product is for awaring the availability of different scholarship schema for under privileged students and its management and

developments. From the website the user gets a complete information for the requirement and eligibility for pursuing a scholarship.

All the criteria are detailed on the website and also it provides answers for all the queries of the user. The product functions are detailed under the *Requirement* section.

1.5. User Characteristics.

The main users of the system were students. Students can enter themselves for selection and also, they can view their application. All their updates and verifications will be updated simultaneously on their profiles. The system deals with the issues related to the scholarship and rectifies the defects. It stores the functionalities regarding the scholarship applied by the student.

1.6. Assumptions and Dependencies.

For the proper working of the system, one should agree all the privacy policies provided by the website. It also wants the self-attested copies of their documents. Malpractices shouldn't be encouraged, if any found out the whole application can be declined. The user's verification will be done through otp code methods. All their personal details are protected under the website authorities.

1.7. Acronyms and Abbreviations.

We use bold letters to represent the main functions of the system. Some links and hyperlinks are used. There were some acronyms throughout this document. There are some abbreviations shown below.

1.7.1. Admin.

In Admin all the information's stored and supervised. It can confirm the details of the nominated candidates and approve them for the selection procedure.

1.7.2. Database

Database is the storage space for storing all the information related to the website in tabular format. It assigns the values of the users .

1.7.3. Fields.

Fields are the cells inside the phones.

2.Requirements

Requirement Analysis is critical to the success or failure of a system or software project. It is a description of features and functionalities of a target system. The Requirement should be documented, actionable, measurable, testable, traceable, related to identify business needs or opportunities, and defined to a level of details sufficient for system design.

2.1. Feasibility Study.

- ☐ Economical Feasibility.
- ☐ Technical Feasibility.
- ☐ Operational Feasibility.
- ☐ Behavioral Feasibility.

2.2. Existing System.

Source major drawbacks of the existing system are:

- ☐ Accuracy.

- ☐ Informational Retrieval.
- ☐ Storage Media.
- ☐ Time Delay.

2.3. External Interfaces.

There are many interfaces related to software in software engineering. Some of the interfaces are user interfaces, software interface, hardware interface and communication interface.

2.3.1. User Interface

User Interface is the page that students can interact which is build using MySQL an PHP. The forms and buttons were designed using PHP.

2.3.2. Software Interface.

- ☐ Platform: SUBLIME
- ☐ Front end tool: PHP
- ☐ Back end tool: MySQL
- ☐ Operating System: Windows 10
- ☐ Server: XAMP

2.3.3. Hardware Interface.

- ☐ Processor: Pentium 13
- ☐ RAM: 4GB
- ☐ Hard Disk: 1TB

2.4. Functions

2.4.1. Registration of Admin.

The admin has to login with their user Id and password. Admin can directly add the new scholarship schemes, scholarship officers and colleges.

2.4.2. Registration of Scholarship Officer.

Analyse the application and verify the eligible students.

2.4.3. Viewing of Schemes.

The page contains various scholarship schemes and eligibility criteria.

2.4.4. Registration of student.

Here the students can create their profiles with their name, contacts, Academic information and other personal data's. And apply for the eligible scholarships. Editing also available in this field.

2.4.5. Viewing Status.

Here students can view their Profile information and eligibility and their current status.

2.5. Usability Requirement.

The user can easily use the website/software. They have to submit accurate documents. With minimum storage and time complexity.

2.6. Performance Requirements.

The performance of software should be reliable and accurate. It has the data flow minimization and client-side caching in order to improve performance.

2.7. System Design

- ☐ Data Entry
- ☐ Data Correction

- ☐ Data selection
- ☐ Processing
- ☐ Reporting

2.8. Database Requirement.

It is used to store the data all the data of users is stored in the database.

3.Verification

We check all the above given Requirements are completely present and satisfy all the functional and nonfunctional requirement. The goal of the system is achieved as per the requirement specification and conditions.

4. References

- *Software requirement specification (SRS) document for Reqview.*
- www.wikipedia.com
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- *Fundamentals of Software Engineering Fourth Edition by Rajib Mall.*
- *BCA Final year Project Record.*

