SOFTWARE REQUIREMENT SPECIFICATION

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PURPOSE

The purpose of this Software Requirements Specification (SRS) document is to provide a detailed description of the Scholarship Management System (SMS) and its requirements. The SRS will provide the necessary information to guide the development of the system and ensure that it meets the needs of its users.

INTENDED AUDIENCE

The intended audience for this document includes the project stakeholders, development team, and quality assurance team. The stakeholders include the sponsor, project manager, and users of the system. The development team includes software engineers, database administrators, and designers. The quality assurance team includes testers and auditor**s.**

INTENDED USE

The intended use of the Scholarship Management System is to provide a centralised platform for managing scholarship applications, eligibility criteria, and award disbursements. The system will allow students to search and apply for scholarships based on their qualifications and the requirements of the scholarship providers. It will also provide scholarship providers with a platform to manage their scholarships and select eligible recipients.

PRODUCT SCOPE

The Scholarship Management System (SMS) is a web-based platform that allows scholarship providers and students to interact and manage scholarship applications. The system will have the following features:

Scholarship Provider Features:

Register as a scholarship provider
Create and manage scholarship programs
Define eligibility criteria for each scholarship program
View and filter scholarship applications based on eligibility criteria
Award scholarships to eligible applicants
View and manage scholarship disbursements
Generate reports on scholarship applications and disbursements

Student Features:

Register as a student
Create and manage student profile
Search and apply for scholarships based on eligibility criteria
Upload required documents and other supporting materials

Track application status and notifications
View scholarship awards and disbursements

Admin Features:
Manage user accounts and permissions
Monitor system performance and usage
Generate system-wide reports on scholarship applications, eligibility, and disbursements.
The Scholarship Management System will be built using Laravel and MySQL. The system will be accessible via a web browser and will be optimised for desktop and mobile devices. The system will also integrate with external services such as payment gateways, email services, and other third-party APIs as required.

Overall, the Scholarship Management System will provide an efficient and user-friendly platform for managing scholarship applications, eligibility criteria, and disbursements. It will help scholarship providers and students streamline their processes and maximise their opportunities for success.

STAKEHOLDER PARTICIPATION

The stakeholders for this Scholarship Management System include the following groups:

Scholarship Providers: These are organisations or institutions that offer scholarships to eligible students. They will use the system to create and manage scholarship programs, define eligibility criteria, view and filter scholarship applications based on eligibility criteria, award scholarships to eligible applicants, view and manage scholarship disbursements, and generate reports on scholarship applications and disbursements.

Students: These are individuals who are seeking scholarships for further studies. They will use the system to search and apply for scholarships based on eligibility criteria, upload required documents and other supporting materials, track application status and notifications, and view scholarship awards and disbursements.

Administrators: These are individuals responsible for managing the system. They will use the system to manage user accounts and permissions, monitor system performance and usage, and generate system-wide reports on scholarship applications, eligibility, and disbursements.

USER NEEDS

The Scholarship Management System will meet the following needs of its users:

Scholarship Providers: The system will provide a platform for scholarship providers to manage scholarship programs and select eligible recipients efficiently.

Students: The system will provide a platform for students to search and apply for scholarships based on their qualifications and the requirements of scholarship providers.

Administrators: The system will provide a platform for administrators to manage user accounts and permissions, monitor system performance and usage, and generate system-wide reports on scholarship applications, eligibility, and disbursements.

ASSUMPTIONS

The following assumptions have been made in the development of the Scholarship Management System:

Users of the system will have basic computer literacy and access to a reliable internet connection.

Scholarship providers will provide accurate and up-to-date information about their scholarship programs and eligibility criteria.

Students will provide accurate and up-to-date information about their qualifications and other supporting materials.

The system will comply with all relevant laws and regulations related to scholarship management.

DEPENDENCIES

The Scholarship Management System depends on the following external services:

Payment Gateways: The system will integrate with payment gateways to enable scholarship providers to disburse scholarships to eligible recipients.

Email Services: The system will integrate with email services to enable users to receive notifications about scholarship applications, eligibility, and disbursements.

Third-Party APIs: The system may integrate with other third-party APIs as required to enhance its functionality.

Overall, the Scholarship Management System will meet the needs of its stakeholders by providing an efficient and user-friendly platform for managing scholarship applications, eligibility criteria, and disbursements. It will depend on external services such as payment gateways, email services, and third-party APIs to enhance its functionality. Assumptions have been made regarding the computer literacy of its users, the accuracy of information provided by scholarship providers and students, and compliance with relevant laws and regulations.

FUNCTIONAL REQUIREMENT

The Scholarship Management System will provide the following functionality:

Scholarship Provider Dashboard: A dashboard for scholarship providers to create and manage scholarship programs, define eligibility criteria, view and filter scholarship applications based on eligibility criteria, award scholarships to eligible applicants, view and manage scholarship disbursements, and generate reports on scholarship applications and disbursements.

Student Dashboard: A dashboard for students to search and apply for scholarships based on eligibility criteria, upload required documents and other supporting materials, track application status and notifications, and view scholarship awards and disbursements.

Administrator Dashboard: A dashboard for administrators to manage user accounts and permissions, monitor system performance and usage, and generate system-wide reports on scholarship applications, eligibility, and disbursements.

Scholarship Program Creation: Ability for scholarship providers to create new scholarship programs and define eligibility criteria for each program.

Scholarship Application: Ability for students to search for scholarship programs based on eligibility criteria, view program details, and submit scholarship applications.

Scholarship Award: Ability for scholarship providers to view and filter scholarship applications based on eligibility criteria, award scholarships to eligible applicants, and generate reports on scholarship awards.

Scholarship Disbursement: Ability for scholarship providers to manage scholarship disbursements and generate reports on disbursements.

EXTERNAL INTERFACE REQUIREMENT

The Scholarship Management System will interact with the following external systems:

Payment Gateway: The system will integrate with a payment gateway to enable scholarship providers to disburse scholarships to eligible recipients.

Email Services: The system will integrate with email services to enable users to receive notifications about scholarship applications, eligibility, and disbursements.

Third-Party APIs: The system may integrate with other third-party APIs as required to enhance its functionality.

NON FUNCTIONAL REQUIREMENT

The Scholarship Management System will adhere to the following non-functional requirements:

Performance: The system should be able to handle a large volume of users and scholarship applications simultaneously without any significant lag or downtime.

Security: The system should be secure and protect user data and information at all times.

Usability: The system should be user-friendly and intuitive, with clear instructions and guidance throughout the application process.

DESIGN AND IMPLEMENTATION CONSTRAINTS

The Scholarship Management System will be developed using the following design and implementation constraints:

Technology Stack: The system will be built using Laravel PHP framework and MySQL database.

Scalability: The system will be designed to scale up or down easily depending on the volume of users and scholarship applications.

Integration: The system will be designed to integrate with external systems such as payment gateways and email services.

USER DOCUMENTATION

The Scholarship Management System will provide the following user documentation:

User Manual: A comprehensive user manual with step-by-step instructions and screenshots to guide users through the application process.

FAQs: Frequently Asked Questions to address common user queries and issues.

Support: Contact information for technical support and assistance.

Software Quality Attributes

- Reliability: The system should be reliable and available at all times with minimum downtime. The software should be designed to handle any failures or errors that may occur during operation.
- Security: The system should have proper security measures in place to ensure data privacy and protection. The software should have strong authentication and encryption mechanisms to prevent unauthorised access.
- Scalability: The system should be able to handle a large volume of data and users without any performance degradation. The software should be designed to handle multiple requests and load balancing.

- Usability: The system should be easy to use and navigate. The software should have a simple and intuitive user interface that is easy to understand and use.
- Performance: The system should be able to process data quickly and efficiently. The software should be optimized for performance to ensure fast response times.
- Compatibility: The system should be compatible with various devices and platforms. The software should be designed to work with different operating systems, browsers, and devices.
- Maintainability: The system should be easy to maintain and update. The software should be modular and well-documented to facilitate maintenance and updates.
- Portability: The system should be portable and able to run on different hardware and software environments. The software should be designed to be platform-independent and easily deployable.

REFERENCES

- YOUTUBE :https://youtu.be/2HVKizgcfjo
- GOOGLE :https://scholarworks.uni.edu/cgi/viewcontent.cgi?article=1052&context=hpt

- HIGH PROFILE INSTITUTIONS AND EXPERTS :
  Fazil (iit software engineering currently working in google)
  Sandeep (arab infotech ceo)
  Unnikrishnan(web designer adobe)
  NSP
  Scholy

- SURVEYS : google form :https://forms.gle/qYkegoHnSwfPWCf66

- INTERACTION WITH STUDENTS .