

**RV College of Engineering®, Bengaluru – 59 Department of Computer Science and Engineering Software Engineering Laboratory (18IS55)**

Synopsis

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| **TITLE: College Scholarship Management System** | | |
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# Introduction

Scholarships help students to get further education without any financial restrictions. There are many scholarships available in India. It helps supporting meritorious and destitute students in persevering their additional studies. Students who are unable to support their education financially due to financial crisis at their family or low income.

So, our project aims at bridging this gap for the needy and poor students.

# 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 following are the drawbacks of the existing manual system

* + Time delay
  + Redundancy
  + Accuracy
  + Information Retrieval
  + Storage Media

# Proposed System

In this project we intended to create a student portal which will act as medium between the students and the college Administration for providing scholarships to the eligible students whose financial condition is not stable.

The proposed functionalities are as follows:

* The proposed system reduces the redundancy as the student details are recorded only once, and various scholarship reports are generated as and when required. The features of proposed system are:
* To make the application more user friendly.
* To provide maximum services to the users.

To reduce the errors and the paper work that occurs in the manual system

* Login/Register portal for students and College Authorities.
* Panel for maintenance of list of Scholarships available
* Reminder to Students about the Application for the Scholarship through email.
* Recommendations of Different Scholarships for Students provided by the NGO’s/Organization.

# 4. Implementation Details

The College Scholarship Maintenance System is made to provide a handy access to both students as well as the scholarship section of our college. The website makes sure that the functionality goes smooth for end users, and the database storage system is going to make sure that it lessens the burden of the college administration. Also, it would exponentially fasten the documentation, submission and tracking of the application.

The users get notified when their application gets accepted, and the management gets to know about the status of the application made by user, and relay the information to masses.

* **User login**: It will verify the username and password from the database and display.
* **Asking for Parent’s details**: Details like income status shall be stored.
* **Document submission**: Document proofs like marksheets, financial conditions, academic and cocurricular certificates shall be asked.
* **Applying for a scholarship**: Selecting type of scholarship an individual wants to apply for based on one’s criteria and board rules.
* **The Committee view**: Displaying the name of the committee for which scholarship is applied to.
* **Post-Scholarship Performance Report retrieval**: Report being generated based on the performance the students display after being credited by a scholarship/s.

We are going to use the following technologies for the implementation:

**Hardware Specification**

* 1. • x86 64-bit CPU (Intel / AMD architecture)
  2. • 4 GB RAM
  3. • 6 GB free disk space
  4. • Modern Operating System: Windows 10

**Software Specification**

* MySQL
* MongoDB
* HTML/CSS
* PYTHON 3.7

Stakeholders of the project:

1. Students
2. Administration

Risk associated with project implementation:

Overall risks:

1. Credentials can be easily hacked
2. Crashing of server due to increased load

**Implementation risks**:

1. Not writing code which can handle multiple test cases ( i.e multiple user inputs ).
2. Decreased cohesion and increased coupling between modules.
3. Writing non-reusable code such that it doesn’t cater to future requirements.
4. Employing the wrong implementation model leading to time waste.

# Societal Concern

Scholarships are merit based and awarded to new and continuing students who demonstrate commitment and leadership to better social outcomes in the business, public and/or social purpose sectors.

We will also incorporate **Machine Learning algorithms and functionalities** to perform analysis on the data of students so as to get better insights to the types of scholarships needed and it will also help to get a bigger picture about the types of scholarships given by the government for a given section/area of people.