**GROUP 5.9**

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**SYSTEM REQUIREMENTS AND SPECIFICATIONS**

**CENTRALISED SCHOLARSHIP MANAGEMENT SYSTEM**

# 

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# Introduction to problem:

A scholarship is an important component related to the education of an individual. For some, the scholarship serves as a **means of motivation** and for others it makes education possible by providing **financial support**. There are many types of scholarships available. Many a times, students are unaware of the different scholarships available and as a result are unable to make use of them. Our system is designed to be a one stop solution for searching about various scholarships applicable to the applicant and comparing them. Furthermore, the student can apply to various scholarships through a single portal. There are many other benefits for the students using this portal.

The basic requirements of the system are mentioned in this document. The different ways of gathering information to arrive at these requirements has also been mentioned.

# Questionnaire:

The following questions were asked as a part of the survey which was conducted among DAIICT students.

|  |
| --- |
| 1. Which of the following type of scholarship you are aware of?   * Academic Scholarship (like Scholarship for Undergraduate,Graduate,PhD) * Minority Scholarships * Gender based Scholarship * Research scholarship * Sports Scholarship * Other   2. Are you receiving scholarship from any organisation(Governmental or non -governmental)  Yes/No  (Answer is Yes then answer questions 3-8)  3. Which type of scholarship are you receiving?  Merit/Merit cum means/Only means based  4. What is the name of your scholarship?  RComm/CM scholarship/TFWS/PM scholarship/DAIICT scholarship/other  5. Do you receive reimbursement for the fees(Eg. CM scholarship) or you pay less fee (Eg. TFWS - where you don't pay the tuition fee)  Receive reimbursement/Pay deducted fee  6. How much scholarship amount do you receive per semester?  <10k Rs/10k to 20k Rs/20k to 30k Rs/30k to 40k Rs/40k to 50k Rs/>50k Rs  7. Do you feel that the current scholarship system is tedious and cumbersome. Please select the options which are applicable.   * Need to fill same personal details each semester * Need to physically visit scholarship center and verify documents each semester * Transfer of funds(in case of reimbursement) is through cheque and not through net banking which needs to be handled carefully * Delay in transfer of funds due to procedural delays   8. While selecting your scholarship, did you compare it with other applicable scholarships?   * I did not know of other scholarships * I wanted to compare with other scholarships, but could not find detailed information. * Yes I compared, but information was scattered and took a lot of time to compare * I could easily compare the scholarships applicable to me.   9. Consider a centralized online scholarship application system. You will need to provide your personal and academic details for completing your profile. Will you give your personal and academic details?  Yes/No  10. Are you aware of any private company/NGO that provide scholarships?  Yes/No  11. If yes,then state name of the any such company/NGO.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  12. In case you have been informed of a particular scholarship, what was the source of your information?   * Newspaper * Friends * Relatives * Internet searching * College administration * National scholarship portal of government * Other : \_\_\_\_\_\_\_\_\_\_   13. How many scholarships have you applied to at one time. For example, if you are searching for college education scholarships, you would have applied to multiple scholarships like CM scholarship, TFWS, PM scholarship, etc ?  none/1-2/2-4/4-6/>6  14. Have you experienced problems in searching for scholarships applicable to you due to lack of a centralized system?  Yes/No  15. Any special feature you would like to include in our our centralized scholarship portal ?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Thank you for completing the questionnaire. |

# Survey Analysis -

We conducted a survey among DAIICT students and inferred the following :

1. 75% of the students receive merit cum means scholarship.

2. 84.6% of the students receive reimbursement funding.

3. The students found their scholarship application process tedious and cumbersome because of the following reasons :

* 1. Need to fill same personal details each semester (76.9%)
  2. Need to physically visit scholarship center and verify documents each semester(53.8%)
  3. Transfer of funds(in case of reimbursement) is through cheque and not through net banking which needs to be handled carefully(38.5% - low percentage may be because CM scholarship which has an online portal and online money transaction facility).
  4. Delay in transfer of funds due to procedural delays(84.6%)

4. More than half of the students surveyed told that they wanted to compare different scholarships at the time of applying but could not do so because of lack of detailed information.

5. Majority of the students (67.6%) are willing to share academic and financial information required as a part of their profile in the system.

6. Most of the students relied on their friends and college administration for information about scholarships. Some also used internet sources, however they could not find any centralised system which provided information about different scholarships at a single place.

7. Finally, in one of the suggestions, the survey student cited the example of national Government portal launched by the Government of India. The portal faced problems in its backend and hence he/she was unable to receive scholarships. This emphasizes the need for reliability of the system.

# Interview -

**Interview 1 - Interview for students (student who has applied to various research scholarships.)**

**System : Centralised Scholarship Management System**

**Participants:**

Omkar Damle (Organization)

Aditya Joglekar ( Student)

Date: 23/1/2017

Time : 13:30

Duration : 30 minutes

Place: Hostel

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of a student who has applied to various research scholarships.

**Agenda :**

Problems that students face in applying for multiple scholarships

What features they need in the new system?

**Documents to be brought to the interview :**

None

**Aditya Joglekar: Interview Summary**

System : Centralised Scholarship Management System

Reference : SF/SJ/2003/12

**Participants:**

Omkar Damle (Organization)

Aditya Joglekar ( Student)

Date: 23/1/2017

Time : 13:30

Duration : 30 minutes

Place: Hostel

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of a **student who has applied to various research scholarships.**

1. Had to research a lot about **international research scholarships**. No centralised portal which gives a list of all international research scholarships applicable to a student pursuing Bachelors in computer science.
2. The applications for the research scholarships have **different due dates**. It is difficult to keep track of all of them
3. Different research scholarships require almost the **same documents**. However, we need to submit the documents to all portals.
4. It is difficult to keep **track of the application status** as one needs to visit the sites of all the portals.
5. Difficult to find seniors from other colleges who were accepted for a particular research scholarship.

**Interview 2 - (student who received Maharashtra Government scholarship in 7th standard)**

**System : Centralised Scholarship Management System**

**Participants:**

Rushikesh Nalla (Organization)

Omkar Damle (Student)

Date: 23/1/2017

Time : 18:30

Duration : 30 minutes

Place: Hostel

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of a student who received Maharashtra Government scholarship in 7th standard.

**Agenda :**

Do funds allocated for scholarship applicant reach the student in time?

No point of contact for student to enquire about scholarship funds.

**Documents to be brought to the interview :**

None

**Omkar Damle : Interview Summary**

System : Centralised Scholarship Management System

Reference : SF/SJ/2003/12

**Participants:**

Rushikesh Nalla (Organization)

Omkar Damle (Student)

Date: 23/1/2017

Time : 18:30

Duration : 30 minutes

Place: Hostel

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of a student who **received Maharashtra Government scholarship in 7th standard.**

1. Applied to **only one scholarship** offered by the Maharashtra Government as it was the only one known among students.
2. Applied for the scholarship by **filling physical forms** in school. It would have been better if an online portal was available.
3. Got selected for the scholarship by scoring marks above the cutoff.
4. **Delivery of funds was mishandled**. We received the funds through the school. The status of fund transfer was not transparent and the funds arrived 1 year late.
5. A centralised online system would be very beneficial as it would make the process **transparent** and it would be easy to check the fund transfer status.

**Interview 3 - (student who is receiving merit cum means scholarship provided by Reliance Communications in DAIICT)**

**System : Centralised Scholarship Management System**

**Participants:**

Omkar Damle (Organisation)

Uttam Chaudhary (College Student)

Date: 24/1/2017

Time : 13:30

Duration : 30 minutes

Place: Hostel

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of a student who is receiving merit cum means scholarship provided by Reliance Communications.

**Agenda :**

Do funds allocated for scholarship applicant reach the student in time?

No point of contact for student to enquire about scholarship funds.

**Documents to be brought to the interview :**

None

**Uttam Chaudhury : Interview Summary**

System : Centralised Scholarship Management System

Reference : SF/SJ/2003/12

**Participants:**

Omkar Damle (Organisation)

Uttam Chaudhary (College Student)

Date: 24/1/2017

Time : 13:30

Duration : 30 minutes

Place: Hostel

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of a student who is **receiving merit cum means scholarship provided by Reliance Communications.**

1. Thought that criteria for scholarship was too stringent and hence did not apply in 1st year. **Lack of information about the scholarship**
2. As this was a college scholarship, the student was **unaware** of it before coming to college.
3. Fortunately, as some students were denied the scholarship due to academic requirements, he got scholarship in 2nd year.
4. Had to fill **physical form** in college for personal details and income verification.
5. The student has to pay the tuition fees for the semester. Later the fees are reimbursed. However, the **reimbursement takes a lot of time** and there is almost a **6 month delay** in getting the reimbursement (through cheque).
6. It would be better if the **fund transaction** can be made directly to the bank account of the student instead of a cheque. The bank account details can be saved in the profile of the student.
7. Each year, one needs to fill the **entire form of personal details** and verify the documents. This is **unnecessary** work. If the details are saved on a personal account of the applicant, then he/she would not need to fill the form again.

**Interview 4 - (student who is receiving TFWS - merit cum means scholarship provided by Ministry of Human Resource Development, Government of India)**

**System : Centralised Scholarship Management System**

**Participants:**

Omkar Damle (Organisation)

Abhi Shah (College Student)

Date: 24/1/2017

Time : 18:30

Duration : 30 minutes

Place: Hostel

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of a student who is receiving TFWS - merit cum means scholarship provided by Ministry of Human Resource Development.

**Agenda :**

How are funds allocated to you? Do you need to pay the tuition fee and then you are reimbursed?

**Documents to be brought to the interview :**

None

**Abhi Shah : Interview Summary**

System : Centralised Scholarship Management System

Reference : SF/SJ/2003/12

**Participants:**

Omkar Damle (Organisation)

Abhi Shah (College Student)

Date: 24/1/2017

Time : 18:30

Duration : 30 minutes

Place: Hostel

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of a student who is receiving **TFWS( Tuition Fee Waiver Scheme)** - merit cum means scholarship provided by **Ministry of Human Resource Development.**

1. Scholarship selection based on **12th board exam and JEE mains**
2. Application through **common admission portal for engineering in Gujarat**
3. **No fee reimbursement - hassle free.**
4. Only criteria - Student should **pass** in all the semesters
5. **Comparison with other scholarships is an issue** because of lack of centralised portal.
6. Best scholarship in terms of financial support - entire tuition fee waived

**Interview 5 - (student who is receiving CM scholarship provided by Education Department, Gujarat State)**

**System : Centralised Scholarship Management System**

**Participants:**

Omkar Damle (Organisation)

Deep Raiya (College Student)

Date: 25/1/2017

Time : 13:30

Duration : 30 minutes

Place: Hostel

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of a student who is receiving CM scholarship provided by Education Department, Gujarat State.

**Agenda :**

How are funds allocated?

**Documents to be brought to the interview :**

None

**Deep Raiya : Interview Summary**

System : Centralised Scholarship Management System

Reference : SF/SJ/2003/12

**Participants:**

Omkar Damle (Organisation)

Deep Raiya(College Student)

Date: 25/1/2017

Time : 13:30

Duration : 30 minutes

Place: Hostel

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of a student who is receiving **CM scholarship** - merit cum means scholarship provided by Education Department, Gujarat State.

1. Reimbursement of fees can cause problems. If no education loan, how will student pay the fees.
2. **Student didn’t have information about other scholarships better suited for him like the one provided by RComm. CM scholarship - 50000 yearly and RComm - Entire tuition fee per semester.**
3. Renewal is yearly - 2 semesters together.
4. Portal is present - <http://scholarships.gujarat.gov.in/cmscholarships/>
5. Personal details need not be filled yearly.
6. Only CPI and SPI needs to be updated.
7. **Document verification done at centers (near Gandhinagar medical hospital) yearly. Why do they need to verify if the documents are submitted online?**
8. **Good feature - Money transferred directly to bank account. The bank account details are stored in the student profile.**

**Interview 6 - (student who is receiving scholarship from NGO named Khushboo Charitable Trust**.**)**

**System : Centralised Scholarship Management System**

**Participants:**

Omkar Damle (Organisation)

Dhaval Prajapati (College Student)

Date: 25/1/2017

Time : 18:30

Duration : 30 minutes

Place: Hostel

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of a student who is receiving **scholarship from NGO named Khushboo Charitable Trust.**

**http://www.scholarships.net.in/8732.html**

**Agenda :**

How are funds allocated?

**Documents to be brought to the interview :**

None

**Dhaval Prajapati : Interview Summary**

System : Centralised Scholarship Management System

Reference : SF/SJ/2003/12

**Participants:**

Omkar Damle (Organisation)

Dhaval Prajapati (College Student)

Date: 25/1/2017

Time : 18:30

Duration : 30 minutes

Place: Hostel

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of a student who is receiving **scholarship from NGO named Khushboo Charitable Trust.**

**http://www.scholarships.net.in/8732.html**

1. Applied after 12th to various scholarships. **No centralised portal**
2. **Very less people know about the scholarship**
3. Compared with CM - problem with comparing - lack of knowledge
4. Verification done manually - first time(through paperwork)
5. **Publicized through paper**
6. JEE rank + Gujarat board (merit cum means)
7. Per semester - 50000 (given on time)
8. Reimbursement(bank account transfer)
9. No unnecessary checking per year
10. **No relation with college**

**Interview 7 : Interview of DAIICT Admin (Senior Secretary, Registrar’s Office) -**

**System : Centralised Scholarship Management System**

**Participants:**

Rushikesh Nalla (Organisation)

Abhilash Bhaskaran (Senior Secretary, Registrar’s Office)

Date: 30/1/2017

Time : 12:00

Duration : 60 minutes

Place: DAIICT Admin Block

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of the organisation who are providing and managing various scholarships.

**Agenda :**

Do funds allocated for scholarship come in time from different public and private organisations?

How are scholarships provided and managed?

How are applicants selected? Is there some online system?

**Documents to be brought to the interview :**

None

**Abhilash Bhaskaran : Interview Summary**

System : Centralised Scholarship Management System

Reference : SF/SJ/2003/12

**Participants:**

Rushikesh Nalla (Organisation)

Abhilash Bhaskaran (Senior Secretary, Registrar’s Office)

Date: 30/1/2017

Time : 12:00

Duration : 60 minutes

Place: DAIICT Admin Block

**Purpose of Interview :**

Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of the organisation who are providing and managing various scholarships.

1. There are many types of scholarships that DAIICT provides such as RComm UG and PG scholarships, Merit scholarship and merit cum means scholarship. Students have to **fill in different application forms** and provide various documents according to their requirements.
2. Some scholarships such as CM scholarship, TFWS (Tuition Fee Waiver Scholarship),Mukhyamantri Yuya Swavalamban Yojana (MYSY) scholarship, SC/ST scholarship **have separate online portals** for applying but are finally approved by the registrar of DAIICT.
3. There is different criteria for each scholarship so students can apply to many but in the end the **student has to choose one** if he has received multiple scholarships.
4. For scholarships provided by DAIICT there is an **selection Committee** which looks through all the applications and makes decision based on various factors.
5. Scholarships like SC/ST, Central Sector, ONGC etc **issue the cheque/DD** in the name of DAIICT which is later given to the student by the college.
6. Some scholarship providers **directly transfer the funds** to the student’s account which saves a lot of time and others give the funds to DAIICT and it provides reimbursement to the student.
7. There is **no delay in receiving funds** especially if it from the government and very less instances of delay in funds provided by private companies.
8. **Significant amount of time is invested** for the scholarship process each year as they have to handle so many applicants and funds coming from different organizations. Hence it is **tedious and requires effort as there is a lot of paperwork and no central online system**.

# Background reading :

In order to understand our problem domain we conducted some background reading. The background reading was done for gathering more information about the following :

1. Types of scholarships
2. Types of funding organisations
3. Types of students
4. Types of documents required

**1. TYPES OF SCHOLARSHIPS –**

1. **Merit and Academic scholarships –**

Some of the more competitive of scholarships are academic scholarships, or merit scholarships. In order to receive an academic scholarship to pay for school ,strong grades are encouraged, as well as ranking in the **top five to ten percent of your graduating class**. Merit scholarships are often related to academic performance, but can also be given to a candidate displaying artistic or athletic excellence, or even a combination of both. It is safe to say that, while all academic scholarships are merit scholarships, not all merit scholarships are academic scholarships.

1. **Research scholarships –**

One of the **most well-funded international scholarships** are research scholarships. Foreign governments fund international research scholarships to establish their countries as global research hubs. Universities set up international research scholarship programs to attract high quality students to contribute to their research efforts. Research scholarships are usually towards **Masters by Research/Thesis or PhD Degree.**

1. **Minority scholarships (caste and women) –**

College scholarships aren’t limited to grade averages or talents, but are also designed to help minorities, women, or students from certain countries receive education.

1. **Need based scholarships –**

Need-based scholarships are awarded based on you or your parents’ financial background. These need based scholarships are designed to provide assistance for studies when students or their guardians are **not able to afford tuition and fees.**

There are many factors a university or a government organization considers when assessing your financial status. They may look at you and your family's income level, the number of members in your household, tax statements, citizenship, employment, or your country of origin.

1. **Sports scholarships –**

Athletic scholarships are given to **top-notch athletes by universities** to recruit them for their athletic teams. Full-ride scholarships for athletes are common among many universities. Athletes compete for these prized athletic scholarships, but they also come with a price. While benefiting from a free education, athletes pay with their rigorous training while balancing their studies. Often athletic scholarships by awarded by athletes while in high-school based on their performance in sports. Each scholarship has its own its own criteria and its own objective.

1. **Community service scholarships –**

Participating in community service activities as a high school student can be highly beneficial, and not just in acing a college interview. Students who get involved can expect to reap many benefits from their extracurricular work, than those who don't.

1. **First in family scholarships –**

The road to a college degree is paved with countless detours for the average student but if you're the first in your family to choose that path, you should expect a road with even more twists and turns. There are scholarship designated to help first-in-family students in their academic pursuits.

1. **Military scholarships –**

Whether you are a member of the Air Force, Army, Coast Guard, Marine Corps, or Navy, there are a number of college scholarships and grants available for service members, veterans and their families.

1. **Special talent scholarships –**

Students with **unusual talents and interests** often find themselves uniquely suited to art scholarships, creative scholarships, and many others that require "special" talents.

**URL’s –**

1. <http://www.scholars4dev.com/11549/top-25-research-scholarships-for-international-students/>
2. <https://www.scholarships.com/financial-aid/college-scholarships/scholarships-by-type/>

3. <https://www.educations.com/scholarships/types-of-scholarships-8577>

4. <http://www.schoolguides.com/types_of_scholarships.html>

**2. TYPES OF ORGANISATIONS PROVIDING SCHOLARSHIPS –**

1. **Company sponsored or Private scholarships –**

There are so many large companies that believe in investing in education — so much, in fact, that they’ve dedicated foundations to sponsor scholarships for students. These organizations offer great opportunities for high school, and sometimes college students, to win money to help pay for their dream school. These scholarship programs often target women and minorities as a way to diversify the growing workforce. **Many of these scholarships will also be dedicated to students pursuing a specific career path that is closely linked to the sponsoring corporation.** Some of them are -

* **Food and soft drink manufacturers**
* **Pharmaceutical manufacturers**
* **IT companies**
* **Investment and commodity brokers**
* **Insurance underwriters**
* **Restaurants and retail chains**
* **Industrial firms**

1. **Government funded scholarships –**

Many countries have their state governments provide scholarships for students based on merit, financial condition and their future goals. All these criteria depends on the **funds of the existing governments** and to what extent they want to help the students. Some of these are –

* 1. **National Merit Scholarship Scheme**
  2. **Maulana Azad National Fellowship for Minority Students**
  3. **CM scholarship**

**URL’s –**

1. <https://www.scholarships.com/financial-aid/college-scholarships/scholarships-by-type/>
2. <http://www.collegescholarships.org/fortune500.htm>
3. <http://scholarships.gov.in/>
4. <https://www.unigo.com/scholarships/company-sponsored>

**3. TYPES OF STUDENTS CONCERNED –**

1. **Degree level of study –**

Like college students themselves, scholarships come in a variety of shapes and sizes. **Undergraduate, graduate, and doctoral students** each have specific financial needs. While there are some general scholarship programs that may be applicable to all students, the majority will be specific to student type and will only be available to students at a particular level of their college career. It is not uncommon for first time scholarship seekers to track down a promising program, only to find that they are ineligible because they are not at the specified degree level. In addition to degree level, **many scholarships are designed to target students pursuing a specific major or course of study.** These subject-specific awards make up a large part of the scholarship field, and students with definite career goals are likely to have better luck in their search for scholarship opportunities.

1. **Field of study –**

Most scholarship providers are looking for specific criteria when handing out awards. These criteria can range from excellent writing to original thinking to great research skills to demonstrated commitment to service. The characteristics sought by specific scholarships may also align themselves well with particular majors. **English, journalism, and philosophy majors** may find themselves excelling at essay scholarships, as their writing-intensive coursework and demanding reading assignments prepare them uniquely for the task. Competitions that ask for original artwork or designs are likely to draw art students, fashion majors, and design majors who have experience and interest in creating something new. Students most familiar with the rigors of scientific research and engineering projects will shine at competitions that emphasize those skills, even if they are open to students of all academic backgrounds.

**URL’s –**

* 1. <https://www.scholarships.com/financial-aid/college-scholarships/scholarships-by-major/>
  2. http://www.collegescholarships.org/scholarships/degree-level.htm

**4. DOCUMENTS REQUIRED TO BE SUBMITTED BY STUDENTS –**

1. **Completed scholarship application form**
2. **Copy of passport/ID**
3. **Copies of transcripts/diplomas**
4. **Statement of purpose/Letter of motivation**
5. **Letter of recommendation (1 or 2)**
6. **CV (Curriculum Vitae)/Resume**
7. **Standardized test scores**

**URL’s –**

1. <http://www.scholarshipportal.com/article/what-documents-would-i-need-for-a-successful-scholarship-application>

# Requirements :

1. **Functional Requirements**
   1. Student applicant should be able to **sign up and maintain academic details** in his/her account.
   2. Student should be able to view scholarships and filter them based on his level of education, type of scholarship, field of study, etc. All the **important details regarding the scholarship** like application form due date, documents required, funding information, duration of scholarship should be **visible** to the applicant.
   3. Student should be able to **apply** to scholarships through the portal.
   4. The scholarship provider will have a **separate login** for managing the scholarship application process. The scholarship provider can view the pool of applicants and filter them based on their specified criteria(only certain filtering can be guaranteed by the software.)
   5. The student will be informed by the software/system in case his **application status is changed**.
   6. In case of reimbursement, the student will receive the funding into his bank account through online transaction based on his **bank account details** in his profile.
   7. The student will be able to **update his academic detail**s like CPI and SPI at the end of his academic semester. Other than that, the student need not re-enter other academic information each semester.
   8. The student applicant will have the provision of **uploading relevant academic documents** like aca
   9. Academic transcript, fee receipt of semester and income statements.
2. **Non-functional requirements**
   1. The account details should be **secured** as the candidate’s academic and financial details are stored.
   2. The system should be able to **handle increase in load** which can happen close to scholarship due dates.
   3. The information provided on the scholarship portal about the scholarships should be **reliable.**

# Observations :

We have observed the DAIICT scholarship system which has helped us in **identifying some features lacking in this system and some of the flaws** which can be overcome by a centralized online scholarship management system.

1. There are many types of scholarships that DAIICT provides such as RComm UG and PG scholarships, Merit scholarship and merit cum means scholarship. Students have to fill in an application and provide various documents according to their requirements. **In our system there is a common application form for each organization.**
2. Some scholarships such as CM scholarship, TFWS (Tuition Fee Waiver Scholarship),Mukhyamantri Yuya Swavalamban Yojana (MYSY) scholarship, SC/ST scholarship and many others have separate online portals for applying. **We are developing a common online portal.**
3. There is different criteria for each scholarship so students can apply to many but in the end the student has to choose one if he has received multiple scholarships. The committee decides the students who deserve a scholarship. **In our system the funding organisation decides who gets the scholarship.**
4. Scholarships like SC/ST, Central Sector, ONGC etc issue the cheque/DD in the name of DAIICT which is later given to the student by the college. **In our system, reimbursement is done by the funding organisation.**
5. Significant amount of time is invested for the scholarship process each year as they have to handle so many applicants and funds coming from different organizations. **Hence it is tedious and requires effort as there is a lot of paperwork**. **This can be overcomed by using our system.**

# User Categories :

This software is aimed at providing a platform for students to apply for various scholarships and various organisations to provide funds.

**1. Students :**

Students will be the ones most benefited from this software as they can apply to various scholarships through one central system.

**2. Funding Organizations :**

Various government and private funding companies help in providing scholarships to deserving students.

**3. Software Manager :**

We need a software manager to verify new funding organisations to the system and to maintain the software.

# 

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# User Privileges(Access Permissions) :

**Students :**

1. Can update their profile and other basic information.
2. Access to apply to different scholarships.
3. Can accept/reject any scholarship offer.

**Funding Organizations :**

1. Can update the criteria for the scholarships.
2. Access to student’s application(who apply for that scholarship).
3. Can request additional information from students.

Software Manager :

1. Can verify funding organizations (new scholarship providers).
2. Access to all the records.

# Assumptions :

1. For the sake of simplicity, the system does not take into account the colleges/universities. The student pays the fees to the colleges and then he receives a reimbursement for the fees. This assumption is backed by the survey data.
2. The software manager is able to verify the genuinity of the funding organisation which wishes to use the centralised scholarship portal for giving scholarships.
3. It is assumed that the students of the country have access to an internet facility.

# Business Constraints:

1. The system is not responsible for delay in transfer of funds caused by the funding organisation.
2. Software should be user friendly so that it is understandable to a non-technical person as well.
3. The system requires the application form to be dynamic which is difficult to implement.

# Fact Finding Techniques :

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| **Objective** | **Technique** | **Subject(s)** | **Time Commitment** |
| To get an understanding of the purpose and requirements of a scholarships. | Background  Reading | Online Articles | 4.5 Hours |
| To understand the DAIICT student community scholarships | Survey | DAIICT student community | (2+1) Hours |
| To identify problems and requirements of scholarship management system from the perspective of the organisation who are providing and managing various scholarships. | Interview | Senior Secretary  Registrar’s Office  DAIICT | 1 Hour |
| To identify problems and requirements of scholarship management system from the perspective of a student who has applied to various research scholarships. | Interview | Students | 0.5 Hour |
| To identify problems and requirements of scholarship management system from the perspective of a student who received Maharashtra Government scholarship in 7th standard. | Interview | Students | 0.5 Hour |
| To identify problems and requirements of scholarship management system from the perspective of a student who is receiving merit cum means scholarship provided by Reliance Communications. | Interview | Students | 0.5 Hour |
| To identify problems and requirements of scholarship management system from the perspective of a student who is receiving TFWS - merit cum means scholarship provided by Ministry of Human Resource Development. | Interview | Students | 0.5 Hour |
| To identify problems and requirements of scholarship management system from the perspective of a student who is receiving CM scholarship provided by Education Department, Gujarat State. | Interview | Students | 0.5 Hour |
| Preliminary meeting to identify problems and requirements of scholarship management system from the perspective of a student who is receiving **scholarship from NGO named Khushboo Charitable Trust.** | Interview | Students | 0.5 Hour |
| To understand the current scholarship management system in DAIICT. | Observations | DAIICT scholarship management system | 2 Hours |