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# Requirement Analysis Report of Edu-Right

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**Group No:** 2

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**Date of Submission:** October 30, 2020

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# 1 Introduction

For proper user requirement analysis, data gathering and proper interpretation of that data is a must.

Through this report, we will walk through the methodologies that we used to gather data, the perspectives of our users through personas and scenarios, the current situation of the existing platforms serving similar purposes and requirements of our system etc.

## 2 Potential Users of the System

Edu-Right is a platform forming bridge between humanitarian people and underprivileged students. So, our main users are sponsors who are willing to make a change in the society. Sponsors can be of any background and age. In order to implement a robust and effective platform, it is also planned to include the students in our system so that they can apply themselves for scholarship. Hence, the system will also be used by students seeking scholarships. At the initial stage, we are focusing to reach the university students as our sponsors. In order to collect data about the requirements of our users, some methodologies were followed that are described below.

## 3 Methodology

For collecting data about our user requirements, procedures like analyzing the existing systems, speculations and questionnaires were used.

At first, the features of the existing systems like JAAGO Foundation, Shapla Foundation were observed. That gave us a quick overview of the current scenario in the country.

The main focus of data gathering was on the surveys, where feedback regarding the current scenarios and the system features from the potential users were recorded. We set questionnaires in Google Forms due to the popularity of this platform. As there is a pandemic situation going on and there is little to no scope to conduct formal interview sessions, we tried to include different categories of open ended and close ended questions and followed pyramid method to make it as close to the in-person interviews as possible. To get a handsome numbers of responses, we circulated the form in different social media groups and asked our friends and relatives to put their opinions in it.

Due to the pandemic situation, we couldn't reach to the underprivileged students as we intended. For their part of the process, we had to rely on our speculations and observations.

## 4 Raw Data of the Survey

Our conducted survey gave us some pretty interesting and useful insights about our users and their needs.

For example, 80% of the total respondents thought that financial crisis was the most prominent cause for student dropout. An interesting fact we observed that, almost 70% of the users are not familiar with any of the existing systems working on similar sort of issues. Then again, those who are familiar with the existing systems, among them over 73% think that the existing systems are not able to meet the demand of the service.

Then came the feedback of the features that they want to be included into our system. Over 60% of the responses asked for the features like: students directly applying for scholarships by themselves and sponsors being able to keep track of the students progress. Then, almost 55% of the responses asked for the integration of schools into the system. There were some other feedback like that.

All in all these feedback helped us understand the requirements of the users better and will also help us make our system in a way that can be more effective in achieving our goals.

The graphical representations of our survey is attached in the **Appendix** section of the report for better demonstration of the stats stated above.

## 5 Personas and Scenarios

### 5.1 Persona 1

The first persona given here will demonstrate the sponsors' perspective in context to our system. The persona is given below:



Figure 1: Persona 1

## 5.2 Scenario 1

Minhaz was going to a resort in Gazipur for a meeting. On his way his car broke down, luckily near a small workshop. So he went to there for help. Minhaz became very disheartened when he saw a boy aged around 10-12 was seen running around with heavy machinery on those very hands which should had books and pencils. How education has become a matter of privilege in our country.

“Hi little one, come here.”, Minhaz asked the boy, “Do you go to school?” “No sir, my father is rickshaw puller and is very sick for some months and I am the eldest son. I have to work here part-time and I miss my school and studies.” This boy was really on the verge of dropout. Minhaz sighed thinking about the little boys future. Only a few more months then he would surely get dropped out of the school.

Minhaz took out whatever he had in his pockets and gave to the boy. “Take this money and try to skip some days here whenever your exams or classes close in.” Minhaz knows very well within few weeks this money will run out and the boy will again come here for work and surely very soon will be a drop out like countless others.

If Minhaz had any system like ours, he could have helped more people like that boy in a more convenient and consistent way.

## 5.3 Persona 2

The second persona here, will demonstrate the students' perspective in context to our system. The persona is given below:

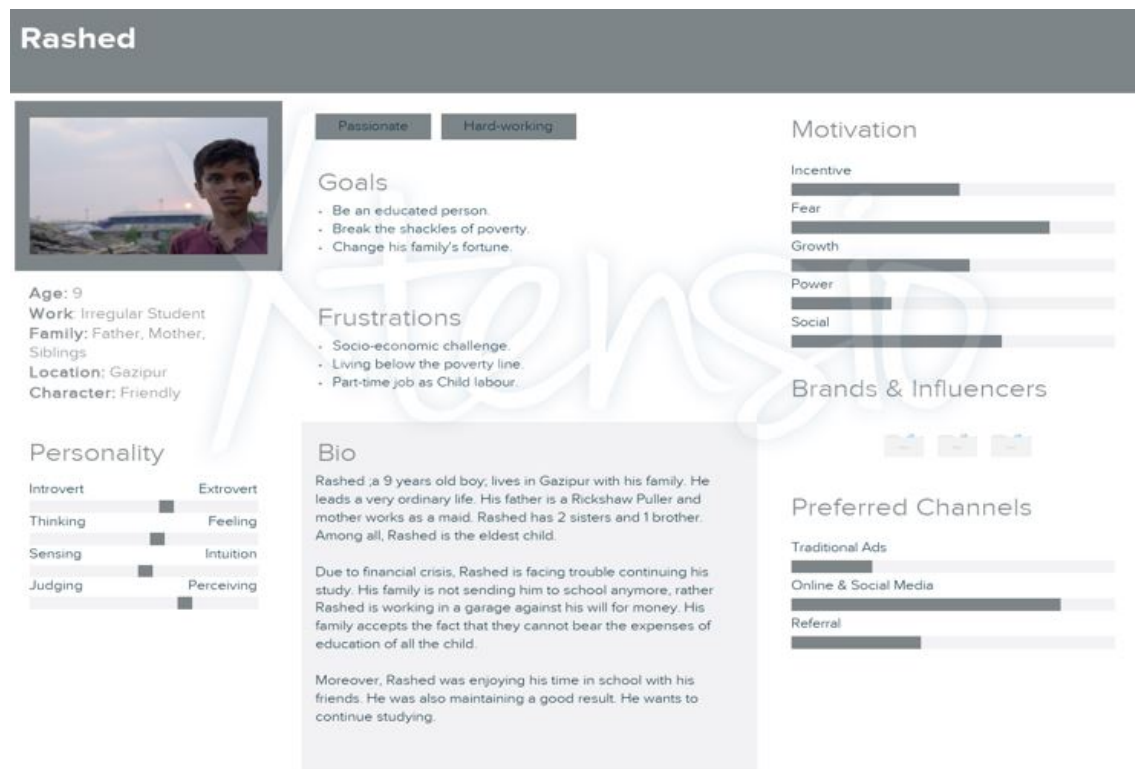


Figure 2: Persona 2

## 5.4 Scenario 2

Rashed is the eldest son in his family. His father pulls rickshaw for over 5 years to feed this family of 6. But for some months Rashed's father is very ill. Now they don't even get two meals a day. Finding no other way, Rashed now has to work on a small workshop near the highway.

Rashed is very calm and sensible even at this very young age. He is also a quick learner. The owner of the workshop really admires these traits of him and tells him to join full time. He also offers a higher pay for it. But Rashed turned down the offer for his studies.

He is a very good student and wants to become an automobile engineer. The teachers always praise his sincerity and seriousness. Even they show him as an example before the rest of the school. Shy little Rashed never boasts about all these to his friends. Even in the last exam he stood 3rd in his class. Rashed has dreams that keep him awake even in nights. He studies late at night as he misses a lot of the studies because of doing part time work. But he won't give up so easily.

Rashed wants to pursue his dreams, wants to make shiny cars for this country and provide for his family in future. He wants to become the support that his family always lacked.



## 6 Current Situations

At present, there are couple of organizations working in Bangladesh to address the similar issue. The most well known and effective initiatives have been taken by JAAGO Foundation. They have a program named "Sponsor A Child" which is aimed to bring a sustainable social change. In this program, they collect donation from the sponsors in monthly basis and connect the sponsor to a child. The scholarship covers study materials, uniforms and medical care of the students. One drawback that we found in JAAGO's initiative is that JAAGO works only with their own schools that narrows down the process of reaching to more underprivileged students of other areas even if there is more than sufficient funding. The students also do not get the opportunity to apply for scholarships by themselves.



Figure 3: JAAGO Foundation

Another organization Shapla Foundation has a similar approach called "Sponsor A Child Education Program in Bangladesh". Their scholarship session lasts for about a year or a school season. In contrary to JAAGO, they work with local schools and for each student they assign a caretaker. The scholarship then covers the educational expenses as well as the salary of the caretaker. But none of the organization we found is decentralized as they have their own or associated schools. As a result of that, students of other places remain deprived from the light of education.

## 7 Requirements of the System

Our system will have a simple and user-friendly interface to interact with our users. If the user-interface is complex then the users with little technological knowledge will find it difficult to use the system. That's why, we intend to keep our user-interface simple and easy to use.

Taking the feedback into consideration, we will have students' profile, sponsors' profile, verification of the students while giving scholarships and students applying for scholarships by themselves.

Students' and sponsors' profiles will allow us to identify each and every individual uniquely and operate better.

Students being able to apply for scholarships by themselves will help us reach out to more number of students. And then, the verification of students will allow us to choose the ones who are in actual need.

Other two features that users want in the system are integration of schools into the system and sponsors being able to keep track of the students progress. The integration of schools and sponsors being able to keep track of the students' progress will ensure the accountability on the students' part and will push them to get better at their studies. These features will make the platform more smooth but due to the constraint of time, we have put these features in our wish list.

All these features will make our system more dynamic and flexible and will help us to provide better service to our users.

Removing redundant features makes the system more user-friendly. So, we don't have the plan to own schools of our own which to be honest makes things more complex to maintain.

## 8 Conclusion

The outcomes of our user requirement analysis will help us understand our users and their needs in a more precise manner and this report will serve as a base for all the upcoming steps in the System Development Cycle.

## 9 References

- View the source code of this report in [OverLeaf](#)
- [JAAGO Foundation](#)
- [Shapla Foundation](#)
- [Survey Responses](#)
- [Survey Questionnaires](#)

## 10 Appendix

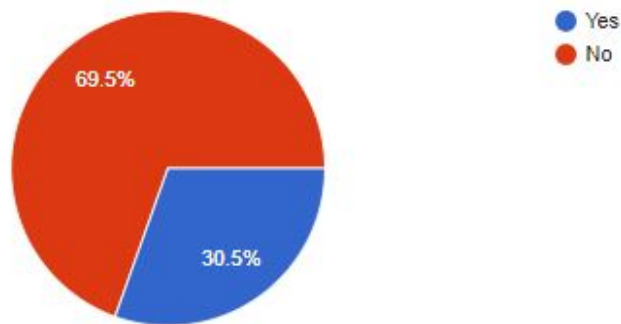
Survey responses:

- What do you think the main cause contributing to the problem of student drop-out?



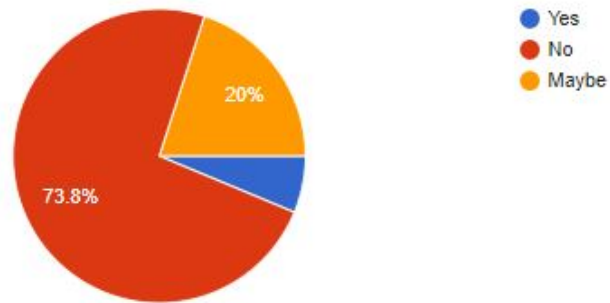
Graph 1

- Are you familiar with any scholarship providing platform working to prevent students' dropout?



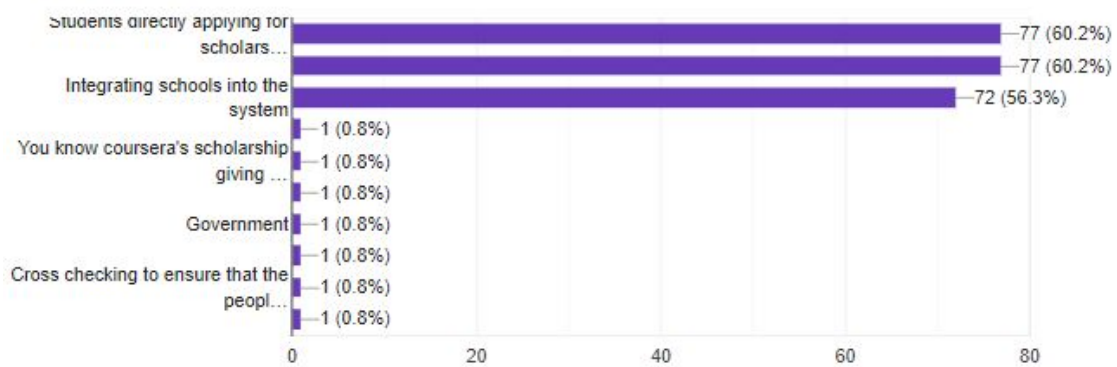
Graph 2

- If yes, do you think they are reaching out to enough students compare to the number of drop-outs?



Graph 3

- Which feature(s) do you think can make a difference if included in our system?



Graph 4