



General Sir John Kotelawala Defense University

Faculty of Computing

Department of Computer Science

Group Project Undertaken in partial fulfillment of the requirement for the
BSc Information Technology Computer Science/ Computer Engineering/ Software
Engineering Degree

Intake 35

PROJECT PROPOSAL

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1 Introduction

1.1 Background & Motivation

Today, there are 10,390 government schools. The curriculum offered is approved by the ministry of Education. Literacy rates and educational attainment levels rose steadily after Sri Lanka became an independent nation in 1948 and today the youth literacy rate stands 97%. The government gives high priority to improving the national education system and access to education.

In addition to the Government schools there are 33 non-fee-levying Assisted Private Schools and 33 fee-levying autonomous Private schools.

Sri Lanka has 15 universities, all of which are public institutions. Admission at undergraduate level to these public universities are based solely on the results of the G.C.E (A/L) Examination and the Z-score, which considers the difficulty level of the subjects. Only 6% of the students who sit the examination are admitted to the universities. Due to restricted facilities admissions have become competitive.

1.2 Problem Domain

When applying to universities through the existing admission system students face a huge difficulty while applying to the most suitable degree program. They have to go through a complex system to submit their application. Most of them get rejected because of the drawbacks caused by them during the completion of application form. So we discussed to design a system to overcome the above discussed scenario. The system is to simplify the workload that have to face when applying the universities. This will be more helpful for all the users to get a clear idea about their eligibility without being confuse.

1.3 Aim

We will design a website for the government sector including all the eligible degree programs related to each range of Z-scores and the universities which offered the selected degree program providing user friendly interface for its users.

1.4 Objectives

- Studying the existing system.
- Evaluate the new system with more features.
- System implementation.
- System testing.

2 Literature Review

The website will be of great help to the youth that are trying to make decisions regarding their higher education, as waiting for UGC confirmation can take up months of time. Having the ability to select whether to stick with a government university or to move on towards private universities will be of great advantage to individuals just completing their Advanced level exams.

The only available system, which is somewhat similar in design to ours, is the UGC website, which allows students already selected into a particular university to view what degree program they have been selected for. But through this system it doesn't give a range of degree programs a user can apply on his/her behalf. It only displays the selected degree & the corresponding university.

KDU has developed similar system in last year. They check eligibility for degree courses when students apply their KDU admission. It is a system which provide eligible degree courses when student provide their stream with results. Our system will be quite similar to this system which can be used for government sector.

Our system differs by giving the applicant the degree programs that he or she may be eligible, although being selected for the eligible programs is another matter completely. And the newly proposed system will be an automated form of university handbook. Our system will reduced the complexity of book and will be great help for all the users as it gives a simplified format of existing degree programs related to each and every z-score of the applicant.

Our system can further be expanded into other universities and even inter university courses

3 Methodology

3.1 Hypothesis

A/L is a main turning point of our lives. Most of the students dream is entering a government University to complete their higher educations. Now UGC has designed a system to apply online for their degree programs. This make students lots of inconveniences due to the lack of computer literacy. Not only that they don't have sufficient knowledge about courses available in the Universities. UGC provide students handbook consist with all the details. There is introduction of all courses with their requirements. They have categorized only major courses such as medicine, bio science for students who passed the A/L in bio stream.

There are many courses that can apply all the students who have minimum requirement for University eligibility. Some courses have different requirements. It is hard to select the courses by going through the book. It is time consuming. And overall process is somewhat difficult.

To overcome this we have decided to create a website to when student enter his/her results and their stream, they get the list of degree courses that they can apply. Thereby it reduces the workload of the applicant and make it easy to interact.

3.2 Functional Requirements

- Select and give the list of degree courses which student can apply.
- Output degree(s) most probable to be selected into.
- Provide Universities that provide that degree.
- Display degree contents and job fields.

3.3 Non –Functional Requirements

- Brief introduction about courses with job opportunities
- Security and privacy
- User friendly interface
- Flexible technology

3.4 Technology

We will create the system (web site) and mobile application. Our major target is to create a website for including all the eligible degree programs related to each range of Z-scores and the universities which offered the selected degree program providing user friendly interface for its users. We use WordPress as the platform for design the website and MySQL to design database.

- WordPress is the easiest platform, but it's flexible enough to suit everyone-small business websites.
- MySQL includes the most comprehensive set of advanced features, management tools and technical support to achieve the highest levels of scalability, reliability and uptime. It reduces the risk, cost, and complexity in developing, deploying and managing critical applications.

(So another main part of our project is to develop the android application for the mobile. For android development we will use applications like android studio, app inventor)

4 Time Plan

TASK	MONTH											
	1	2	3	4	5	6	7	8	9	10	11	12-
Research and Analysis												
Problem identifying												
Project proposal outline												
Proposal Submission												
Information Gathering												
Feasibility Studying												
Requirement Gathering												
System Development												
Front end design												
Back end design												
Testing												
Intergration												
Documentation												

Figure 1

5 Conclusion

Processing the advanced level results of the ever-increasing youth requires massive amounts of manpower, resources and it consumes time, time that industries in the economy provide so little of. Taking advantage of this the private universities are able to recruit much of the candidates by registering students long before the UGC provides registration dates.

Rejection of University applications are a common problem seen today which can be caused by a number of reasons, all contributing to the candidates frustration and causing them to overlook the fact that he or she could have been selected and make them select a private university.

If the students have the ability to know beforehand if they have the chance of being selected into a government university, it would help greatly in making future decisions. Our website does just that by taking user Streams and Z-scores and providing them with their eligible degree programs and showing them all the options, they have to start their careers.

6 Reference

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