



Green University of Bangladesh

*Department of Computer Science and Engineering (CSE)
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Scholarship Management System

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<u>Project Proposal Status</u>	
Marks:	Signature:
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Contents

1	Introduction	2
1.1	Overview	2
1.2	Objective	2
1.3	Motivation	2
1.4	Problem Definition	3
1.4.1	Problem Statement	3
1.4.2	Complex Engineering Problem	3
1.5	Design Goals/Objectives	3
1.6	Application	4

Chapter 1

Introduction

1.1 Overview

Many students face financial challenges that make higher education difficult to afford, yet numerous scholarship opportunities are available to alleviate these challenges. However, finding the right scholarships, tracking deadlines, and managing the application process can be overwhelming due to the lack of a streamlined, centralized system. This project aims to develop a web-based scholarship management platform where students can easily search for scholarships, apply directly, and manage their application documents. The platform also serves scholarship providers, enabling them to efficiently promote and manage applications.

1.2 Objective

- To efficiently track scholarships by managing applications, tracking applicant details, and maintaining records of awarded scholarships.
- To simplify the application process for students, enabling them to easily apply, upload documents, and receive application status updates.
- To ensure data security and accessibility by securely storing applicant information while allowing administrators easy access to manage and review applications.

1.3 Motivation

The motivation for this project is to bridge the gap between students seeking scholarships and the resources available to them. Our goal is to create a unified, user-friendly platform that:

Empowers Students: By simplifying the scholarship discovery and application process, we aim to give students easy access to a variety of scholarship opportunities tailored to their unique backgrounds and qualifications. **Supports Scholarship Providers:** Many organizations want to offer scholarships but face challenges in promoting their

programs effectively and managing a large volume of applications. This platform will provide a streamlined solution for providers to connect with eligible candidates efficiently. Promotes Equal Opportunity: Education is a powerful tool for personal and societal growth. By making scholarships more accessible, this platform helps level the playing field, offering students from diverse backgrounds a better chance to pursue higher education without financial barriers.

1.4 Problem Definition

1.4.1 Problem Statement

Many students lack access to a single, organized system where they can easily find and apply for scholarships. As a result, they miss out on potential funding opportunities, often due to difficulties in managing application deadlines, complex eligibility criteria, and document submissions. Simultaneously, scholarship providers face challenges in processing applications and handling communication with applicants.

1.4.2 Complex Engineering Problem

Our web-based platform will be a one-stop destination for both students and providers, allowing for:

Table 1.1: Summary of the attributes touched by the mentioned projects

Name of the P Attributes	Explain how to address
P1: Depth of knowledge required	HTML, CSS, JavaScript, and MongoDB database
P2: Range of conflicting requirements	Implement adaptive authentication, where high-risk activities (e.g., accessing sensitive data) prompt additional security checks, while general usage remains simple.
P3: Depth of analysis required	For your Scholarship Management project, analysis should cover user accessibility, data security, system scalability, and reliable automation for notifications, ensuring smooth interactions and accurate reporting for efficient scholarship management.

1.5 Design Goals/Objectives

To develop an intuitive platform that:

Helps students easily discover and apply for scholarships. Supports scholarship providers in managing applications and tracking applicants. Centralizes the scholarship

process to save time, reduce errors, and increase accessibility.

1.6 Application

- **Scholarship Discovery:**Students can browse and search for scholarships based on criteria such as field of study, location, academic level, and financial need.
- **Personalized Recommendations:**The platform suggests scholarships tailored to students' profiles, increasing the likelihood of finding suitable opportunities.
- **Application Management:**Students can track their applications, receive notifications for deadlines, and stay informed of any status changes.
- **Document Storage:**The system allows students to upload and securely store essential documents for easy access and reuse across multiple applications.
- **Provider Dashboard:**Scholarship providers can review applications, manage applicants, and communicate with students in a centralized dashboard.