



Green University of Bangladesh

*Department of Computer Science and Engineering (CSE)
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GUB Online Book Store

*Course Title: Web Programming Lab
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<u>Lab Project Status</u>	
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Contents

1	Introduction	2
1.1	Overview	2
1.2	Motivation	2
1.3	Problem Definition	2
1.3.1	Problem Statement	2
1.3.2	Complex Engineering Problem	3
1.4	Design Goals/Objectives	3
1.5	Application	3

Chapter 1

Introduction

1.1 Overview

GUB Bookstore is an online system designed particularly for Green University of Bangladesh students in a way that they can conveniently and securely buy new academic books directly from the official stock of the university. There are two levels of access to the users: students and administrators. Students can surf through the available books, compare prices, and place orders, while the administrators will handle order approvals, inventory control, and maintaining stock of books. This system makes sure students receive the correct and current materials prescribed for their classes, all through a dependable system run by the university.

1.2 Motivation

The idea for the GUB Bookstore was born out of the increasing demand for a methodical platform through which students are able to buy books directly as per their registered courses. The students are most often left clueless about where they can acquire appropriate editions of books or even if books are available. A single platform centrally governed under the umbrella of Green University removes such a problem, ensuring students have around-the-clock access to officially suggested new books independent of external suppliers or previous versions. This project is intended to simplify book availability for students and inventory management easier for the university.

1.3 Problem Definition

1.3.1 Problem Statement

Green University of Bangladesh does not as yet possess a dedicated online bookstore from which students can purchase new books directly from the approved list of books at the university. Students hence navigate a hassle of not knowing where to access the right books, obtaining the outdated versions, or navigating pricing misfits. To the

above ends, the GUB Bookstore will serve as an authorized online portal that bridges the student community with approved lists of books that are provided directly from the university.

1.3.2 Complex Engineering Problem

Creating this system poses some administrative and technical challenges, such as:

- Develop a centralized inventory system to track books and quantities.
- Implement a secure login system for enrolled students to place orders.
- Create an approval process for administrators to review orders.
- Enable real-time stock updates during order placement and delivery.
- Design a simple, responsive interface for student access across devices.
- Ensure scalability to handle high demand during peak periods, like new semesters.

1.4 Design Goals/Objectives

The primary objective of the GUB Bookstore is to provide an easy-to-use, university-endorsed online platform for students to purchase required books. The primary design objectives are:

- **User-friendly design:** Easy interface for students to order books.
- **Administrative control:** Admins manage orders, stock, and reports.
- **Secure login:** Restricted access for students and admins.
- **Inventory tracking:** Real-time alerts for orders and shipments.
- **Responsiveness:** Works on desktop with Local Host

1.5 Application

The GUB Bookstore has the potential to expand in the future with features such as pre-ordering textbooks before each semester, offering discounted bundles for multiple books, and providing digital copies alongside physical editions for greater convenience. Additionally, the system could serve as a template platform for other departments within Green University, enabling them to efficiently manage and distribute their own materials.