Bangladesh University of Business and Technology
Department of Computer Science and Engineering

University management system
PROJECT PROPOSAL

<u>**COURSE CODE**</u>   : **CSE 100**
<u>**COURSE TITLE**</u>   : **SOFTWARE DEVELOPMENT – I**

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Problem Definition:

A University Management System is a software platform designed to streamline administrative processes in higher education institutions. It helps manage student records, course registration, faculty information, finances, and more. This system enhances efficiency, accuracy, and communication within the university, benefiting students, faculty, and staff alike.

Objectives:

- To develop a user-friendly University Management System that automates administrative tasks.

- To improve data accuracy and accessibility for university faculty and student.

- To streamline communication between different departments within the university.

Methodology:

In our software there are five parts. First one is the "ABOUT" section where people will know about our university, then the second part is the "ACADEMIC" section about the faculty and department of our university, after academic section there is "CLUBS" section which is for all the clubs of our university, the next one is for the "ADMISSION" to get admission in our university, the last one is for "CONTACTS" to contact with university.

Modern universities require efficient systems to streamline administrative processes and provide students with a comprehensive platform for managing their academic endeavours. The University Management System is designed to serve both admin and student.

User Panel:

First of all the user needs to register their information in this software. For the registration in the system they need to enter their full information (Name, ID, Phone number, etc. After registration they have to log in with their ID and password. After log in they can see their academic information here. To update or reset their password they will need to provide their id and phone number.

Features::

These are some important feature for our software:

- User authentication and authorization.

- Student registration and enrollment management.

- Course registration and scheduling.

- Faculty and staff management.

- Grade and transcript management.

- Financial record keeping.

- Reporting and analysis.

Resources:

We have used some functions and features of C++ programming language to build the software. Some of those are File management system, File handling, directory handling, structure, string, functions, looping statement, conditions etc. We will use **iostream, fstream, windows.h, cstdlib, vector** etc. as header files for maintain our functions in the program of this application.

Future Goal & Conclusion::

A University Management System benefits universities and students by enhancing administrative efficiency and resource allocation while providing students with streamlined services and improved access to information. Our upcoming software update will enhance the Email Alert System for academic updates and the Online Application System for prompt issue resolution, further improving user experience.