

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**JATIYA KABI KAZI NAZRUL ISLAM UNIVERSITY, TRISHAL,**  
**MYMENSINGH, BANGLADESH**

**Date:** 28.02.2023

1. **Name of the student:** Sakib Ahamed Shahon  
**Roll No.:**19102018  
**Session:**2018-19

**Name of the student:** Mehedi Khan Rakib  
**Roll No.:**19102012  
**Session:**2018-19

2. **Programme:** ☐PhD/☐MPhil/☐MS/☒BSc. If MS, CGPA in B.Sc.  
(Engr.):  
**Proposal for:** ☐Thesis/☒Project

3. **Name of the Proposed Supervisor:** Dr. Tushar Kanti Saha  
**Designation:** ☒PROFESSOR / ☐ASSOCIATE PROFESSOR/ ☐ASSISTANT PROFESSOR/ ☐LECTURER

4. **Tentative Title (Block Letters):** **CENTRALIZED WEB BASED SYSTEM FOR HIGHER EDUCATIONAL INSTITUTE.**

5. **Background and present state of the problem:** Every large scale educational institutes require a central system for gathering and processing information about themselves and their various administrative activities. This may include displaying information about their teaching stuff , educational programs or help students find specific information about administrative procedures or their corresponding educational programs. For institutes like an university the problems are more complex and the requirements for a centralized system is more robust and complex. (Abid Ismail, 2022) As the system needs to co-ordinate between multiple department and their activities all the while having the flexibility of supporting new subsystems on demand. (William Erickson, 2013) Such systems must both have ease of access and also provide a large number of activities for the benefit of teachers , students and other staff members of the institute.

6. **Objectives with specific aims and possible outcomes:**

**Objective:**

- a) Create a central software system that handles day to day needs of a large educational institute.
- b) Ensure the system has all core utility programs that address the necessity of students , teacher and administrative bodies.
- c) Make sure the central system can accommodate new subsystems for special purposes without hassle.

**Outcomes:**

- a) A central software system that can be accessed by everyone involved.
- b) A system that provides unique services depending on the category of the user(student/teacher/stuff).
- c) Co-ordinates between different types of users.

7. **Outline of Methodology/ Experimental Design:** The entire program will be developed as a web based sytem using relevant programming languages like HTML,JS,CSS,PHP,MySQL etc.We will use visual studio code for IDE. Requirements will be gathered from different types of users including teacher , students and administrators. Subsystems will be designed and developed to meeth the requirements. Each subsystem will be carefully integrated into the main centralized system. The system will be web based to ensure its accessibility for all types of users at any time. We will be following agile methodology for development to ensure changes in requirement are well handled.

## 8. Reference:

Abid Ismail, K. K. (2022). Web accessibility investigation and identification of major issues of higher education websites with statistical measures: A case study of college websites. *Journal of King Saud University - Computer and Information Sciences*, 901-911.

William Erickson, S. T. (2013). The Accessibility and Usability of College Websites: Is your Website Presenting Barriers to Potential Students? *Community College Journal of Research and Practice* , 864-876.

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**Signature of Department Head**

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**Signature of Supervisor**