

# American International University – Bangladesh (AIUB) Faculty of Engineering

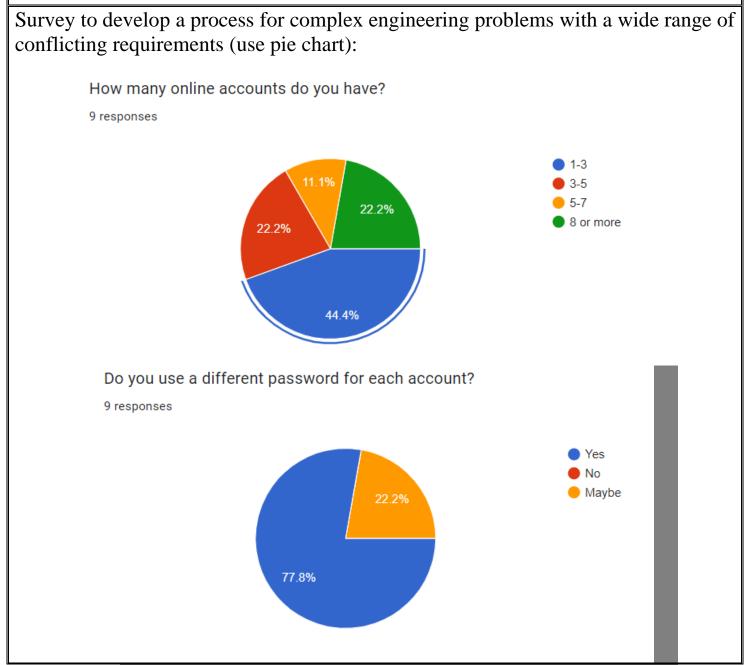
Department of CSE, EEE, and CoE

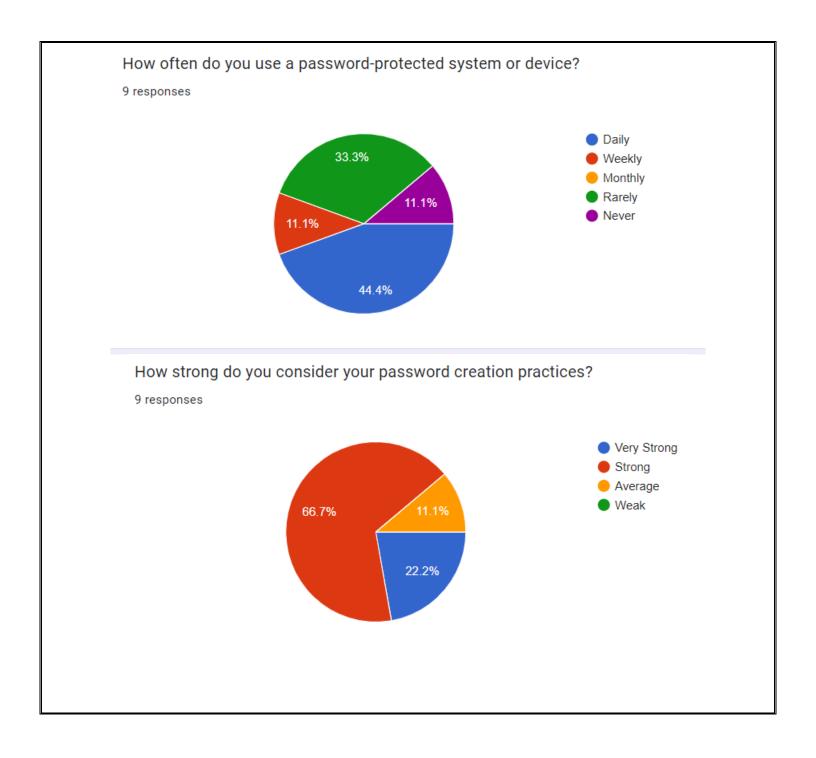
EEE3102 Digital Logic and Circuits LAB

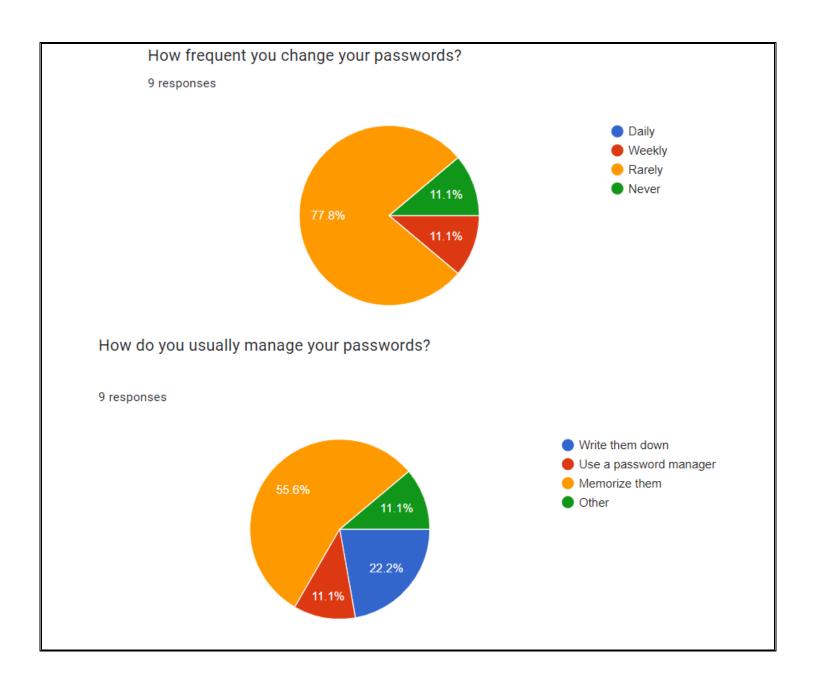
# PROJECT PROPOSAL FORM

**SEMESTER:** Fall 2023-2024

### **PROJECT TITLE:** PASSWORD SECURITY SYSTEM

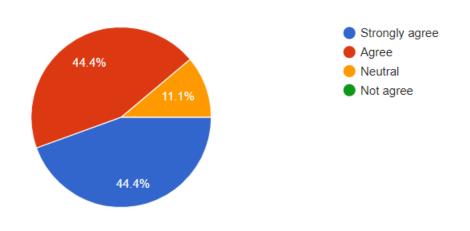






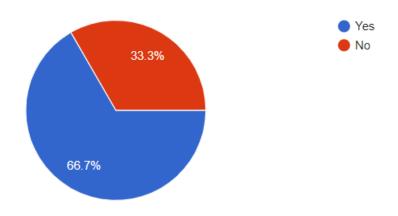
Do you agree that a secure password is important in maintain our privacy throughout internet?

9 responses



Are you aware of or have you used password security systems before?

9 responses



## **AIMS AND OBJECTIVES OF THE PROJECT:**

To develop and implement a Password

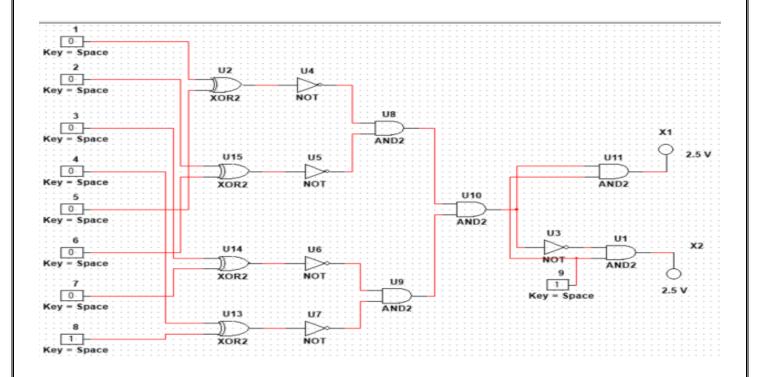
Security System that safeguards user accounts and sensitive information from unauthorized access and data breaches.

### LITERATURE REVIEW:

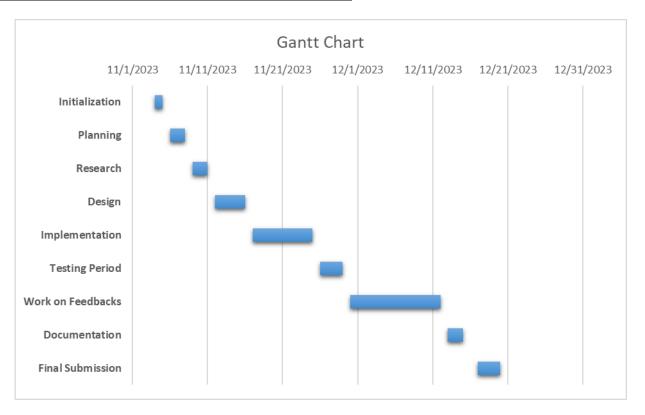
The proposed project, titled "Password Security System," aims to design and implement a digital logic system to enhance access control and security in various applications, such as homes, offices, and personal devices. Password-based authentication is a fundamental aspect of modern security systems, and this project seeks to develop an efficient and reliable solution. The system will consist of an input interface for users to enter a password, which will be compared to a pre-stored, secure password. When the entered password matches the stored one, a green LED indicator will illuminate to grant access; otherwise, a red LED will signify denied access. This project will leverage digital logic gates, memory elements to create a cost-effective and low-power security system. By conducting a comprehensive literature review, this proposal identifies the existing literature on digital logic-based access control systems, password security, and LED indicator designs. It will critically assess the strengths and limitations of prior works to inform the design and implementation of an innovative and reliable Password Security System, contributing to the field of digital logic and security technology.

### EXPERIMENTAL BLOCK DIAGRAM:

### PASSWORD SECURITY SYSTEM



### **PROJECT TIMELINE (GANTT CHART):**



### **REFERENCES:**

[1] A Study of Password Security Factors among Bangladeshi Government Websites (December 2020) Adil Ahmed Chowdhury Leading University, Md. Sadek Ferdous BRAC University. [Accessed: 07-09-2020]. [Online]. Available:

https://www.researchgate.net/publication/346614538\_A\_Study\_of\_Password\_Security\_Factors\_among\_Bangladeshi\_Government\_Websites

- [2] L. Arezina. (2019, 19 November) Password statistics for 2020. [Accessed: 07-09-2020]. [Online]. Available: https://dataprot.net/statistics/password-statistics/[2] D. V. Klein, "Foiling the cracker: A survey of, and improvementsto, password security," in Proceedings of the 2nd USENIX SecurityWorkshop, 1990, pp. 5–14.
- [3] M. Raza, M. Iqbal, M. Sharif, and W. Haider, "A survey of passwordattacks and comparative analysis on methods for secure authentication," World Applied Sciences Journal, vol. 19, no. 4, pp. 439–444, 2012.
- [4] P. Hoonakker, N. Bornoe, and P. Carayon, "Password authentication from a human factors perspective: Results of a survey among end-users," in Proceedings of the Human Factors and Ergonomics Society Annual Meeting, vol. 53, no. 6. SAGE Publications Sage CA: Los Angeles, CA, 2009, pp. 459–463.

# COMMENTS BY THE COURSE TEACHER: COURSE TEACHER'S NAME COURSE TEACHER'S SIGNATURE DATE

# **GROUP MEMBERS:**

(Maximum 6 students are permitted to carry out a single Project. However, depending on the capability of the students, 4 students may be allowed but not less than that)

NAME: LIDA KHAN MUKTI	NAME: MD. JAHID HASAN				
<b>ID:</b> 22-47000-1	<b>ID:</b> 22-47010-1				
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NAME: NAZIM-E-ALAM	NAME:				
<b>ID:</b> 22-47047-1	ID				
PROGRAM: EEE/COE/CSE	PROGRAM: EEE/COE/CSE				
EMAIL: nazimriyadh001@gmail.com	EMAIL:				
REMARKS (for OFFICE use only)					

Course Outcome Mapping with the Course Project Proposal:

COs/CLOs	Details	K	P	A	Assessed Program Outcome Indicator	BNQF Indicator	Assessment Techniques
	Apply proper information and concepts of different logic gates, digital ICs, transistors, and timers to implement logical circuits considering a wide range of conflicting requirements.	17.2	P1, P2, P6		P.a.3.C3		Course Project Proposal Form

Course Name:	Digital Logic and Circuits Lab	Course Code:	EEE 3102	
Semester:	Spring 2022-2023	Section:	L	
Faculty Member:	NUZAT NUARY ALAM			

<b>Course Project Title:</b>	PASSWORD SECURITY SYSTEM
Project Group No.	07

SL	Student ID #	Student Name	Obtained Marks
1.	22-47000-1	LIDA KHAN MUKTI	
2.	22-47010-1	MD. JAHID HASAN	
3.	22-47018-1	FARJANA YESMIN OPI	
4.	22-47019-1	MD. ABU TOWSIF	
5.	22-47047-1	NAZIM-E-ALAM	
6.			

### Assessment Materials and Marks Allocation:

COs	Assessment Materials	POIs	Marks
CO1	Course Project Proposal form	P.a.3.C3	20

### **Assessment Rubrics**

11000001	Assessment Rubites								
COs-POIs	Excellent [17-20]	Proficient [13-16]	Good [9-12]	Acceptable [5-8]	Unacceptable [1-4]	No Response [0]	Secured Marks		
CO1 P.a.3.C3	The survey developed as a process for complex engineering problems considering a wide range of conflicting requirements and implementation process is clear and challenging for future project implementation.	problems considering a wide range of conflicting requirements but the conflicting	The survey developed as a process for complex engineering problems considering a wide range of conflicting requirements but the conflicting requirements are less in number and implementation process is not so clear but seems challenging for future project implementation.	The survey developed as a process for complex engineering problems considering a wide range of conflicting requirements but the conflicting requirements are fewer in number and implementation process is not so clear and seems less challenging for future project implementation.	The survey developed as a process for complex engineering problems considering a wide range of conflicting requirements but the conflicting requirements are very few in number and implementation process is not clear at all and seems impractical for future project implementation.	No Response			
Comments						Total marks (20)			