

Ahsanullah University of Science & Technology

Department of Computer Science & Engineering



Hospital Management System

Software Development II (CSE 2100)

Submitted By:

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ABSTRACT

The project titled “Hospital Management System” is a hospital management software for monitoring and controlling transactions in hospital. This project will be developed in Netbeans 8.2 and database management will be handled by MySQL. This software focuses on basic operations in a hospital as well as some specific features like facility of administrative login. We can register new patients. To register a from need to be log in by username and password. After logging in we can store patient's information. It is possible to see and add stuff information. Hospital currently uses a manual system for the management and maintenance of critical information. The current systems require numerous paper forms, with data stores spreads throughout the hospital management infrastructure. Often information is incomplete, or does not follow management standard. Forms are often lost in transit between departments requiring a comprehensive auditing process to ensure that no vital information is lost. Multiple copies of the same information exist in the hospital and may lead to inconsistencies in data in various data stores. A significant part of the operation of any hospital involves that acquisition, management, and timely retrieval of great volumes of information. This information typically involves; patient personal information and medical history, staff information and ward scheduling, staff scheduling and various list of other faculties. All this information must be managed in an efficient and cost wise fashion so that an institution's resources may be effectively utilized HMS will automate the management of the hospital making it more efficient and error free. It aims at standardizing data, consolidating data ensuring data integrity and error free. It aims at standardizing data, consolidating data ensuring data integrity and reducing inconsistencies.

Software Platform:

- The project will be developed using Java Swing.
- Netbeans 8.2
- MS SQL server

Project Description

Hospital Management System is flexible, and easy to use and is designed and developed to deliver conceivable benefits to hospitals and clinics and more importantly it is backed by reliable and dependable. It is an integrated end-to-end Hospital Management System that provides relevant information across the hospital to support effective decision making for patient care, hospital administration and critical financial accounting, in a seamless flow.

The Software is for the automation of Hospital Management.

It maintains one level of users: -

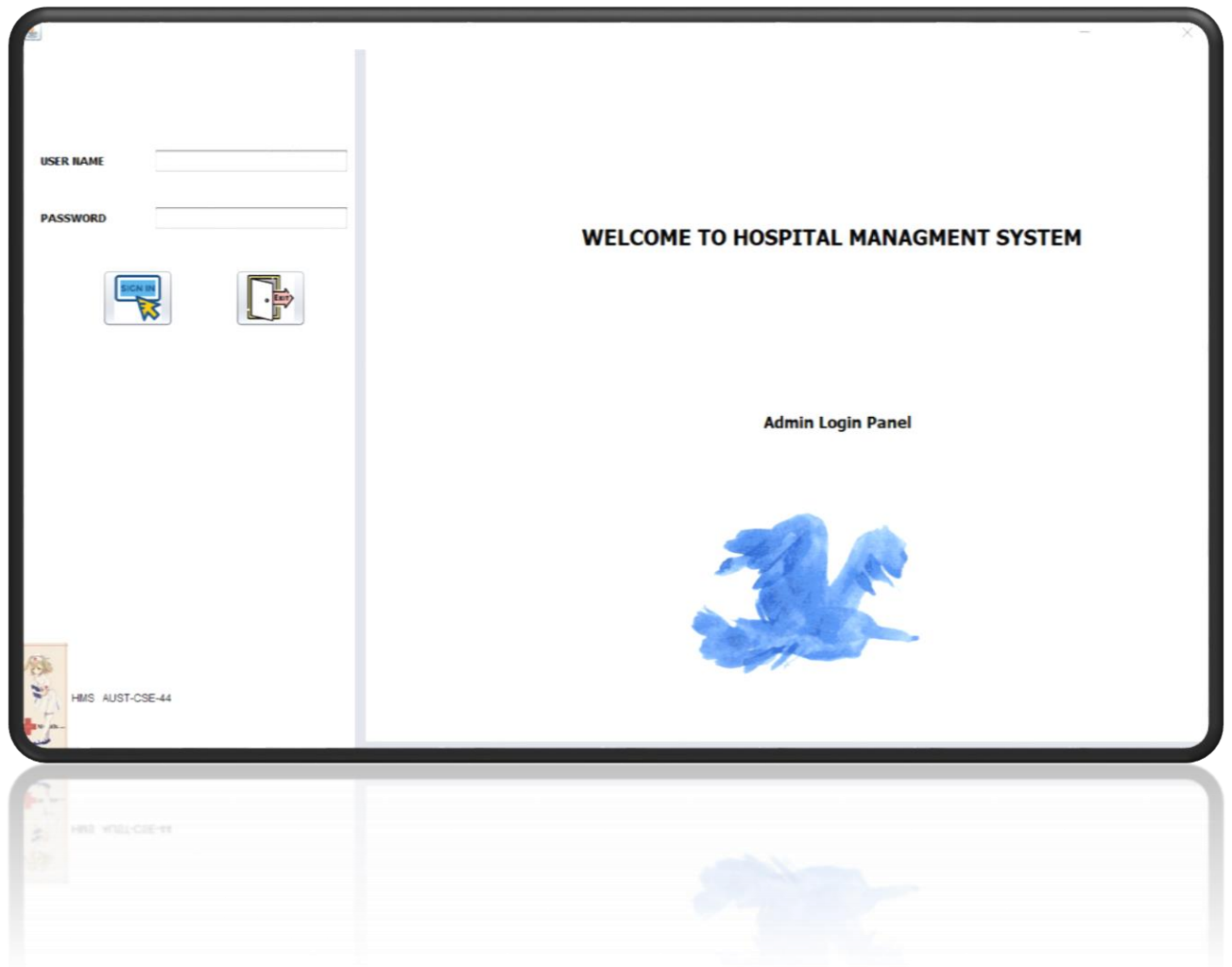
- ✓ Administrator Level

The Software includes: -

- ✓ Maintaining Patient details.
- ✓ Providing Doctor Details.
- ✓ Billing and doctor's appointment info.
- ✓ Reister and Provide Stuff Details.
- ✓ Provide emergency contact.

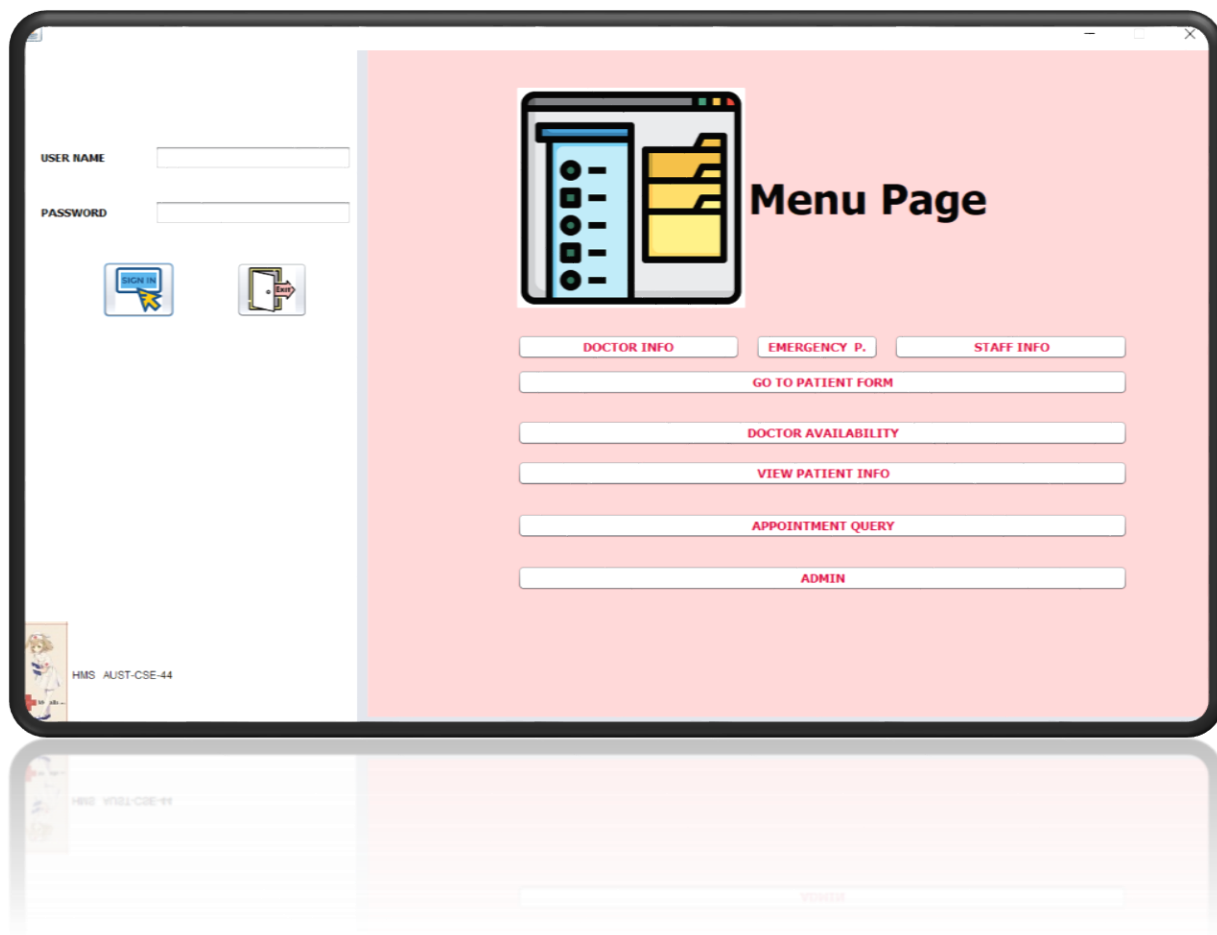
Inside Porject:

- Login Panel: To resister or to view information we need to login.

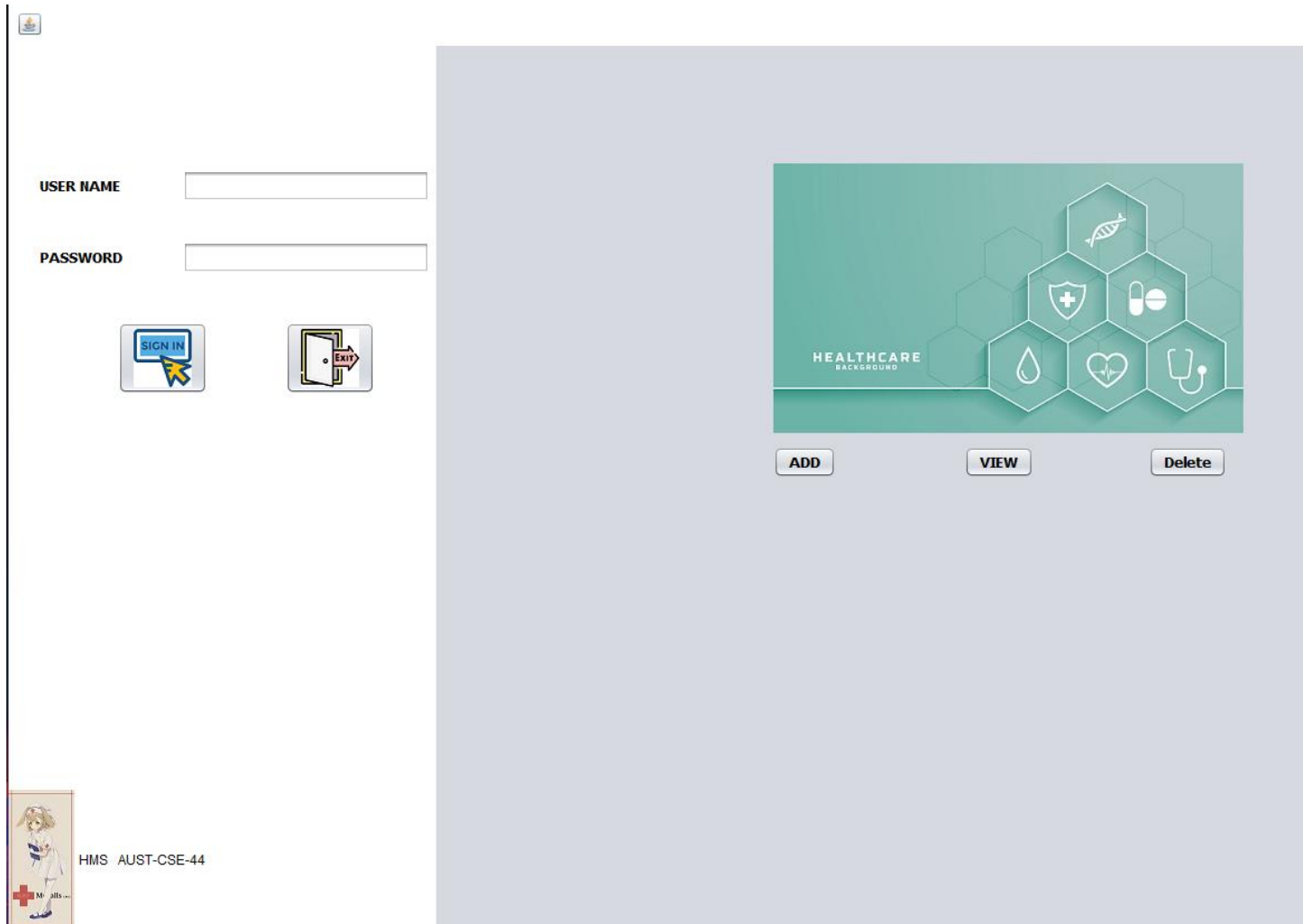


- ★ username: Enter the username.
- ★ password: Enter the password.
- ★ sign in icon: Button to enter the program.
- ★ Exit icon: Button for sign out from the program.

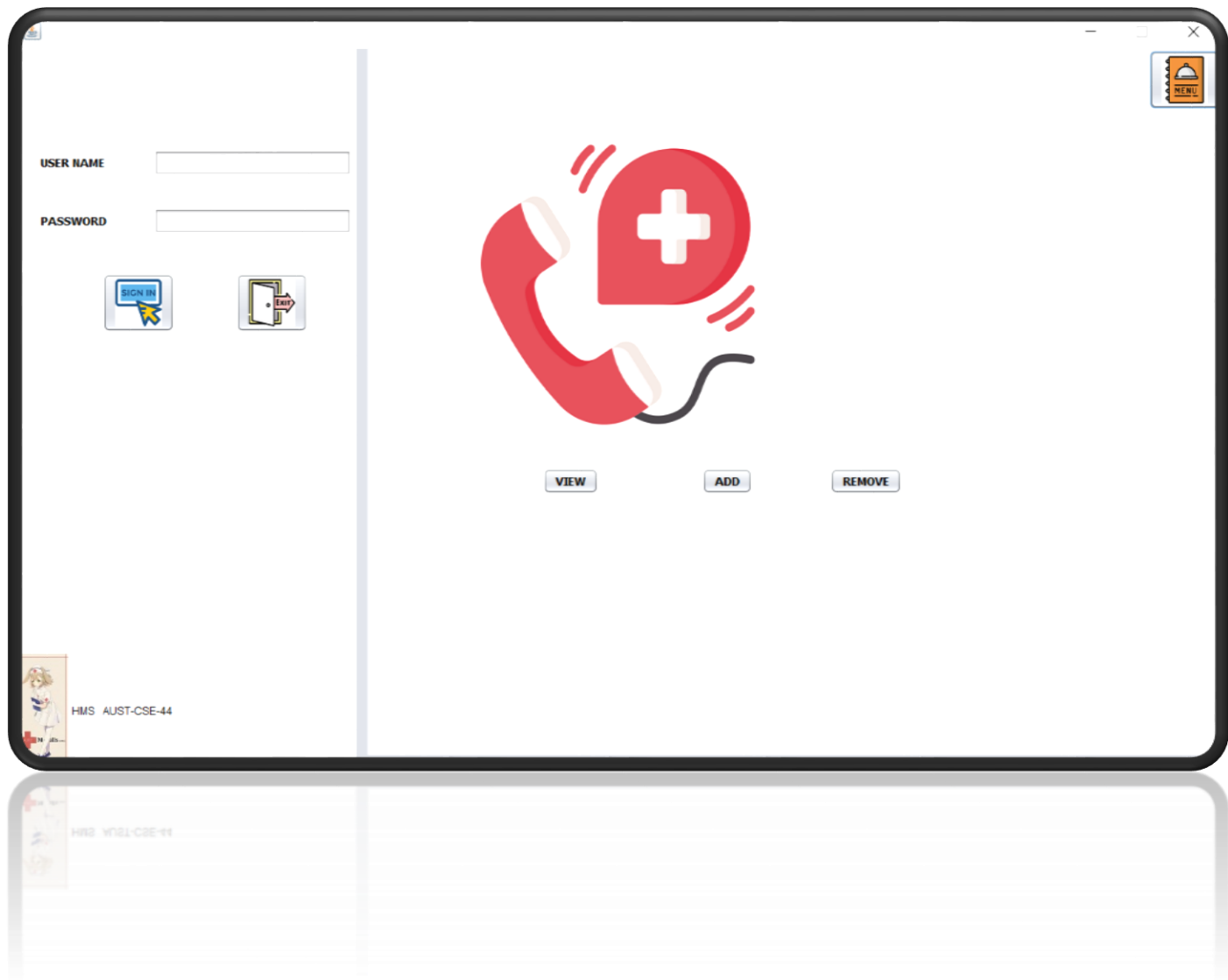
🔍 Home Menu: From home menu we can access all its services.



- ★ Doctor Info: This Button will open new window from where we can add remove or see all doctor info.



- ★ Emergency P: This button will open new window where we will find emergency number. Through this will be able to add or remove any emergency number.



- ★ Goto Patient Form: This button will open patient form where we will be able to store patient info again, we can remove any patient info.

PATIENT FORM

03:36:25 AM 2021-10-06

USER NAME

PASSWORD

SIGN IN **EXIT**

Date

Patient Name

Father Name

CNIC Number

Patient Illness

Choose Doctor

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DELETATION **RESET**

+



In patient form we do not need to put date and time. Date and time will store automatically.

- ★ **Doctor Availability:** This button will open patient appointment form where patient appointment data will store. We do not need to type date and doctor name. Date will store automatic and doctor name can be pick from combo box which connected with central database.

DOCTOR AVAILABILITY

USER NAME

PASSWORD

Date:



Doctor Name:

Time:

Appointment Fee:

Payment Option:

CNIC NO:



 

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- ★ Appointment Query: Form this button we will able to search a patient appointment using his CNID.


USER NAME

PASSWORD

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CNIC NO:





Doctor Name	Time	Fee	Payment Method	CNIC	Date
Dr. Mark Emil Horowitz	4 pm	10\$	cash	190204093	
Dr. Steven D. Wolff	3 pm to 6 pm	15\$	Visa	190204093	


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- ❖ Admin: This button will open new window where we can remove and add admin.

USER NAME

PASSWORD


 

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ADD


USER NAME

PASSWORD



DELETATION

USER NAME:





More ss form project:

- This ss show doctor info window

USER NAME

PASSWORD

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Name	Mail	Phone NO	Room NO	Qualification	DIN	Active Hour
Dr. Steven D. Wolff	wolff@sample.com	(212) 369-9200	1A	Diagnostic Radiology	DR-01	3 pm to 6 pm
Dr. Eamonn A. Vill	eamonn@sample.c...	(332) 895-4133	4A	Family Medicine	FM-01	9 am to 3pm
Dr. Md. Amzad Hoss...	hossain@gmail.com	8715512	4C	Medicine & Kidney	MK-1	3 pm to 6 pm
Dr. JP Mohr	jpmohr@sample.com	(212) 305-8033	2A	Neurology	N-01	5 pm to 8 pm
Dr. John	john@sample.com	(888) 702-0630	3C	Occupational Medicine	OM-1	3 pm to 6 pm
Dr. Rafael	rafael@sample.com	(212) 241-1554	2C	Occupational Medicine	OM-2	3 pm to 6 pm
Ahammed Sharif	ahammed@sample...	01703657667	1B	TNT	TNT-1	8 am to 2 pm

This ss show patient info table.

The screenshot displays a web application interface. On the left side, there are two input fields labeled "USER NAME" and "PASSWORD". Below these fields are two buttons: "SIGN IN" with a blue arrow icon and an "Exit" button with a door icon. In the bottom left corner, there is a small logo of a person in a white coat and a red cross, followed by the text "HMS AUST-CSE-44".

On the right side, there is a table displaying patient information. The table has six columns: Name, Father Name, CNIC, Illness, Doctor Name, and Date. The data is as follows:

Name	Father Name	CNIC	Illness	Doctor Name	Date
MD Fardin Jaman Aranyak	Jaman Talukder	190204093	covid-19	Dr. Mark Emil Horowitz	
MD Symum Hossain	Belal Hossain	190204105	Muscle pain	Dr. JP Mohr	
Aninda Mazumder Adi	Mazumder	190204100	skin	Dr. Eamonn A. Vitt	
Shovon	narayan	190204111	skin problem	Dr. Steven D. Wolff	2021-09-30

In the top right corner of the table area, there is a "MENU" button with a hamburger icon.

➤ Problem we faced:

This project developed using outdated version of NetBeans so we notice its stop showing run time error so it is hard to find out real problem. We also notice stack overflow while we are coding (more than 3k line code create stack overflow). To avoid those problem, we need to reset NetBeans.

We also face problem to connect our database because inside project we give a default database password(alphacoders4t4) which did not match with our local host. So, we must change password every time we run this project in a new machine according to localhost password.

This project developed in a brief period due to one of our project member sicknesses(covid-positive) 🤒. So, we could not finish how we want to be.

- More feature which can be add:
- ✓ Pharmacy Maintenance System.
 - ✓ User log in panel.
 - ✓ Staff log in panel.

[YouTube Link For This Project Presentation](#)

[Github Link](#)

Thanks To,

- ◇ A.K.M. Amanat Ullah Sir
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