

Smart Department



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
BANGLADESH UNIVERSITY OF BUSINESS & TECHNOLOGY
(BUBT)
MIRPUR-2. DHAKA

December, 2021

Smart Department

A project

Submitted to the Department of Computer Science and Engineering

Bangladesh University of Business and Technology (BUBT), Dhaka

In partial fulfillment of requirements

For the Software Development 2

of

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING

BY-

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Intake – 43rd (sec 1)

SUPERVISED BY-

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Mirpur-2, Dhaka-1216, Bangladesh

ABSTRACT

We would agree that digital education enhances the learning experience of students by better engaging their attention and enabling them to grasp concepts more readily. It has changed the way education is imparted – a single query or doubt can be clarified in seconds online, there are innumerable resources available for a student online that add on to the classroom.

Most of the student of a university have a computer. A student often does not find a lot of information easily or he/she fall in trouble to find the information from others. So, we decide to make an application which is “Smart Department” Where this application helps the student of any department of BUBT by providing all necessary information.

DECLARATION

We hereby declare that the project entitled “**SMART DEPARTMENT**” submitted in partial fulfillment by us for the degree B.Sc. Engineering in Computer Science and Engineering in the faculty of Computer Science and Engineering of **Bangladesh University of Business and Technology (BUBT)** under the guidance of our supervision of **Shovon Roy**, Lecturer, department of Computer Science and Engineering is our own work and it contains no material which has been accepted for the award to the candidates of any other disciplines except few references which is taken from various books and authors to enrich our knowledge about the topic of our project.

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CERTIFICATE

TO WHOM IT MAY CONCERN

That is to certify that Md. Firose Mahmud, Md. Habibur Rahman Shohel and Md. Arafat Hossan students of B.Sc. in CSE has completed their project work titled “**SMART DEPARTMNET**” satisfactorily in partial fulfillment for the requirements of B.Sc. in Computer Science and Engineering from Bangladesh University of Business and Technology in the year December, 2021.

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DEDICATION

Dedicated to our parents for all their love and inspiration.

ACKNOWLEDGEMENT

“Task successful” makes everyone happy. But the happiness will be gold without glitter if we didn’t state the persons who have supported us to make it a success. Success will be crowned to people who made it a reality but the people whose constant guidance and encouragement made it possible will be crowned first on the eve of success.

This acknowledgment transcends the reality of formality when we would like to express deep gratitude and respect to all those people behind the screen who guided, inspired and helped me for the completion of our project work. We consider ourselves lucky enough to get such a good project. This project would add as an asset to our academic profile.

We express our gratitude to the help of our supervisor **Shovon Roy**, for his constant supervision, guidance and co-operation throughout the project and for giving constant motivation and valuable help through the project work. We also would like to thanks to our honorable chairman **Dr. Muhammad Firoz Mridha** for his support and giving us support and giving us permission to use the computer lab whenever we needed.

We extend our sincere gratitude to our parents who have encouraged us with their blessings to do this project successfully. Finally we would like to thank to all our friends, all the teaching and non-teaching staff members of the CSE Department, for all the timely help, ideas and encouragement which helped throughout in the completion of project.

APPROVAL

This project “**SMART DEPARTMENT**” submitted by Md. Firsoe Mahmud, Md. Habibur Rahman Shohel and Md. Arafat Hossan ID No. 19201103003, 19201103027 and 19201103039 students of B.Sc. in Computer Science and Engineering from Bangladesh University of Business and Technology in the year December, 2021 under the supervision of Shovon Roy, Lecturer, Department of Computer Science and Engineering has been accepted as satisfactory for the partial fulfillment for the requirements of B.Sc. in Computer Science and Engineering and approved as to its style and contents.

Project Supervisor

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Chairman

Dr Muhammad Firoz Mridha

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Department of Computer Science and Engineering (CSE)

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1. Introduction

We would agree that digital education enhances the learning experience of students by better engaging their attention and enabling them to grasp concepts more readily. It has changed the way education is imparted – a single query or doubt can be clarified in seconds online, there are innumerable resources available for a student online that add on to the classroom.

Most of the student of a university have a computer. A student often does not find a lot of information easily or he/she fall in trouble to find the information from others. So, we decide to make an application which is **“Smart Department”** Where this application helps the student of any department of BUBT by providing all necessary information.

2. Project Review

2.1 Problem Statement:

We developed a software for the students of BUBT where the students of all department will be the user. And they can get access to by registering in this software. They will get course related information, class link, reference book, slide & record, class routine and notice.

2.2 Objective of this Project:

We were looking for a project to select that didn't match the other groups. The **“SMART DEPARTMENT”** got the idea while searching for the project in internet. There we saw a lot of complete projects but they were in another high level language. There were no such projects using C# language. And then we decided that we would complete this project using C# language.

By the end of this project, the basics in C# language have become clearer. The mentality of developing software and working in a team has been created. By completing the project we learned some of the functions of C# language that were unknown to us.

2.3 Feature of this project:

1. Course related information
2. Class link
3. Reference book
4. Slide & record
5. Class routine
6. Notice.

3. Technologies

3.1 Software:

3.1.1 Visual studio:

Visual Studio is an Integrated Development Environment (IDE) developed by Microsoft to develop GUI(Graphical User Interface), console, Web applications, web apps, mobile apps, cloud, and web services, etc. With the help of this IDE, you can create managed code as well as native code. It uses the various platforms of Microsoft software development software like Windows store, Microsoft Silverlight, and Windows API, etc. It is not a language-specific IDE as you can use this to write code in C#, C++, VB(Visual Basic), Python, JavaScript, and many more languages. It provides support for 36 different programming languages. It is available for Windows as well as for macOS.

3.1.2 Xampp:

XAMPP is a cross-platform web server that is free and open-source. XAMPP is a short form for Cross-Platform, Apache, MySQL, PHP, and Perl. XAMPP is a popular cross-platform web server that allows programmers to write and test their code on a local webserver. It was created by Apache Friends, and the public can revise or modify its native source code. It includes MariaDB, Apache HTTP Server, and interpreters for PHP and Perl, among other computer languages. Because of XAMPP's simplicity of deployment, a developer can quickly and easily install a WAMP or LAMP stack on an operating system, with the added benefit that common add-in apps like WordPress and Joomla can also be loaded.

3.1.3 mysql-connector-net-8.0.23:

MySQL Connector/NET 8.0.23 is the latest General Availability release of the MySQL Connector/NET 8.0 series. This version supports .NET 5.0 and the X DevAPI, which enables application developers to write code that combines the strengths of the relational and document models using a modern, NoSQL-like syntax that does not assume previous experience writing traditional SQL.

3.2 Programming Language:

3.2.1 C# Language:

C# (pronounced "See Sharp") is a modern, object-oriented, and type-safe programming language. C# enables developers to build many types of secure and robust applications that run in .NET. C# has its roots in the C family of languages and will be immediately familiar to C, C++, Java, and JavaScript programmers. This tour provides an overview of the major components of the language in C# 8 and earlier. If you want to explore the language through interactive examples, try the introduction to C# tutorials.

C# is an object-oriented, **component-oriented** programming language. C# provides language constructs to directly support these concepts, making C# a natural language in which to create and use software components.

Since its origin, C# has added features to support new workloads and emerging software design practices. At its core, C# is an **object-oriented** language. You define types and their behavior.

3.3 Software framework

3.3.1 The .NET framework:

.NET is a framework to develop software applications. It is designed and developed by Microsoft and the first beta version released in 2000.

It is used to develop applications for web, Windows, phone. Moreover, it provides a broad range of functionalities and support.

This framework contains a large number of class libraries known as Framework Class Library (FCL). The software programs written in .NET are executed in the execution environment, which is called CLR (Common Language Runtime). These are the core and essential parts of the .NET framework. This framework provides various services like memory management, networking, security, memory management, and type-safety.

The .NET Framework is composed of four main components:

1. Common Language Runtime (CLR)
2. Framework Class Library (FCL),
3. Core Languages (WinForms, ASP.NET, and ADO.NET), and
4. Other Modules (WCF, WPF, WF, Card Space, LINQ, Entity Framework, Parallel LINQ, Task Parallel Library, etc.)

4. System Analysis

4.1 System user analysis

4.1.1 Admin Panel:

In this panel admin can login to the software using a special Username & an admin key. From the admin panel an admin can view all data, insert any data, change/update any data and also can delete any data from the database.

4.1.2 Student Panel:

In the student panel the user have to registration with some personal information and then he/she can login to the software using the username and password. Then he/she can only view his/her needed data.

5. Access System

5.1.1 Admin Panel:

In this panel admin can login to the software using a special Username & an admin key. From the admin panel an admin can view all data, insert any data, change/update any data and also can delete any data from the database.

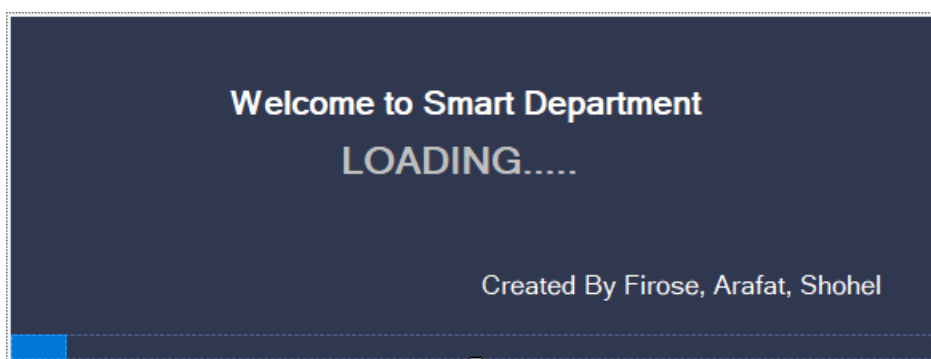


Figure-1 : Loading Page

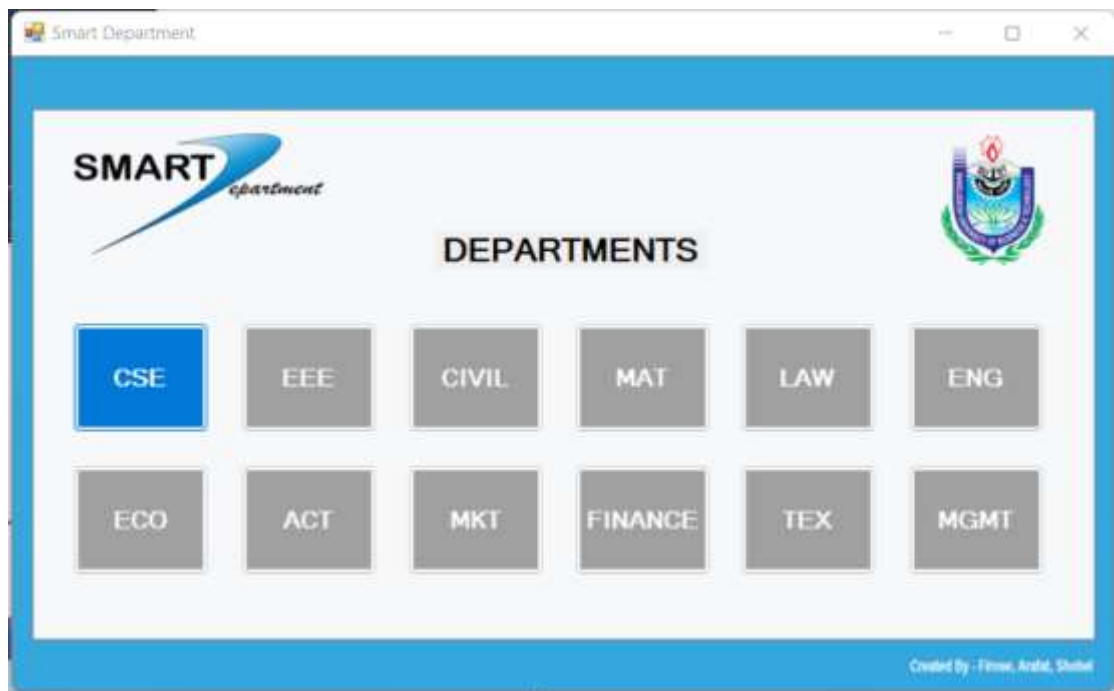


Figure-2 : Home Page

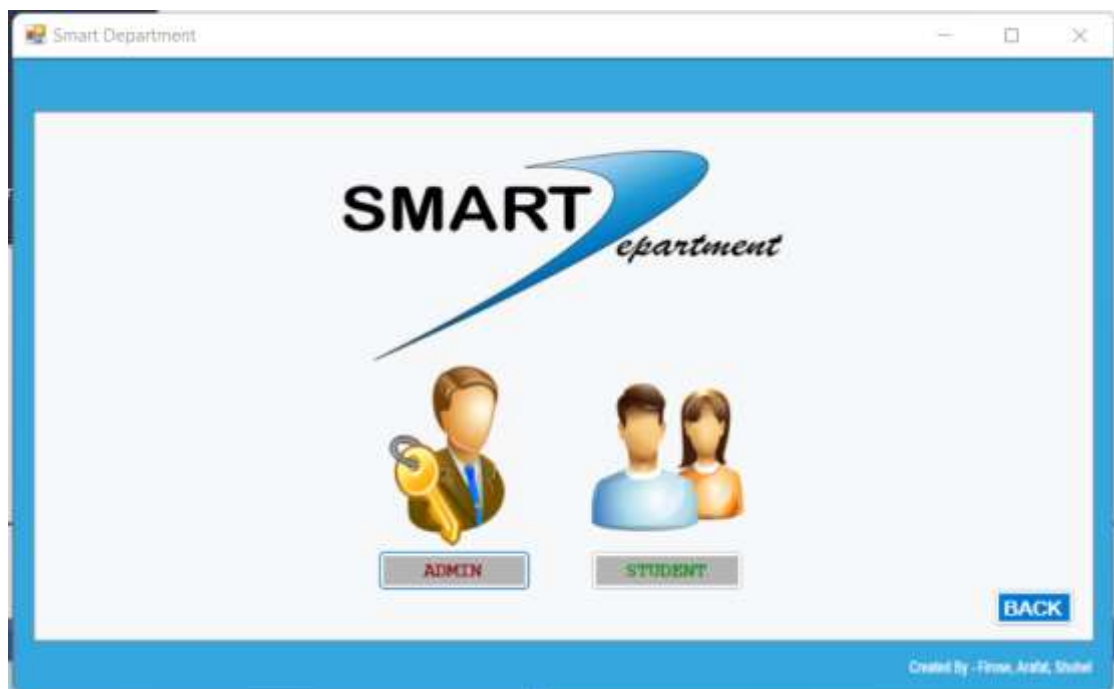


Figure-3 : Admin-Student Home Page

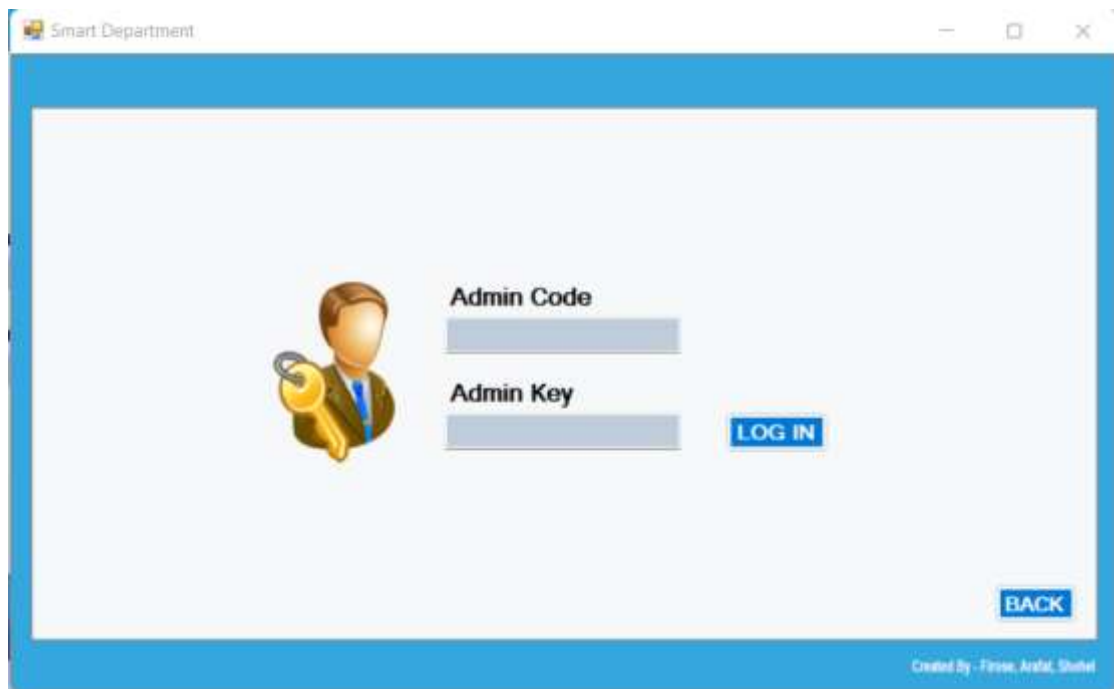


Figure-4 : Admin Login Page

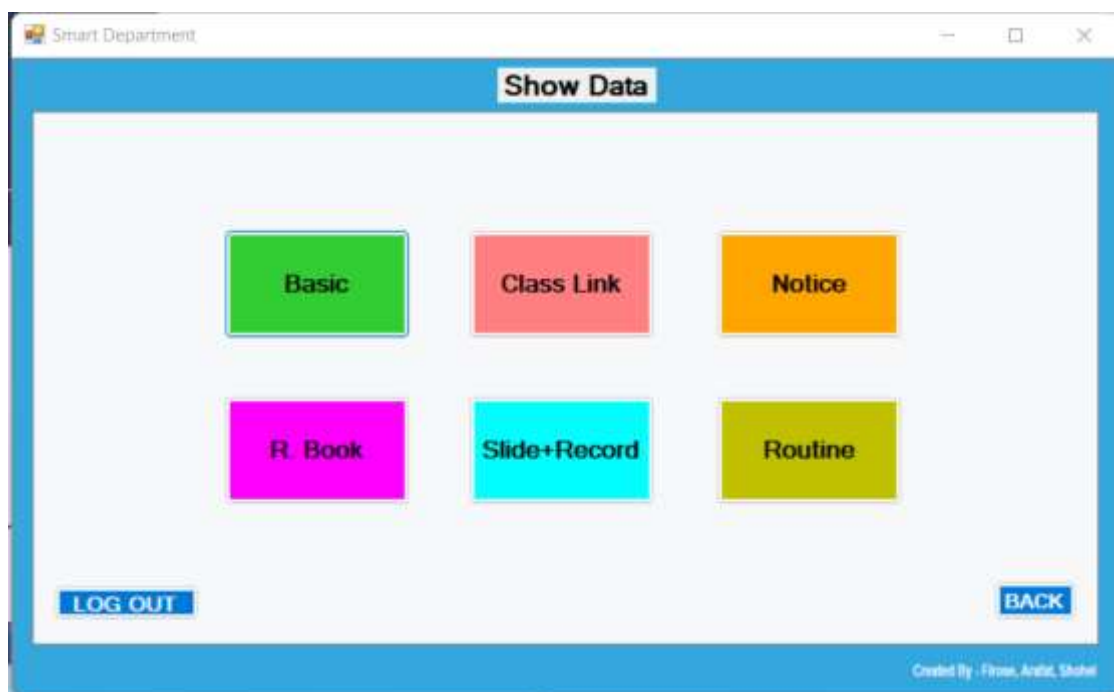


Figure-5 : Admin Show Data Page

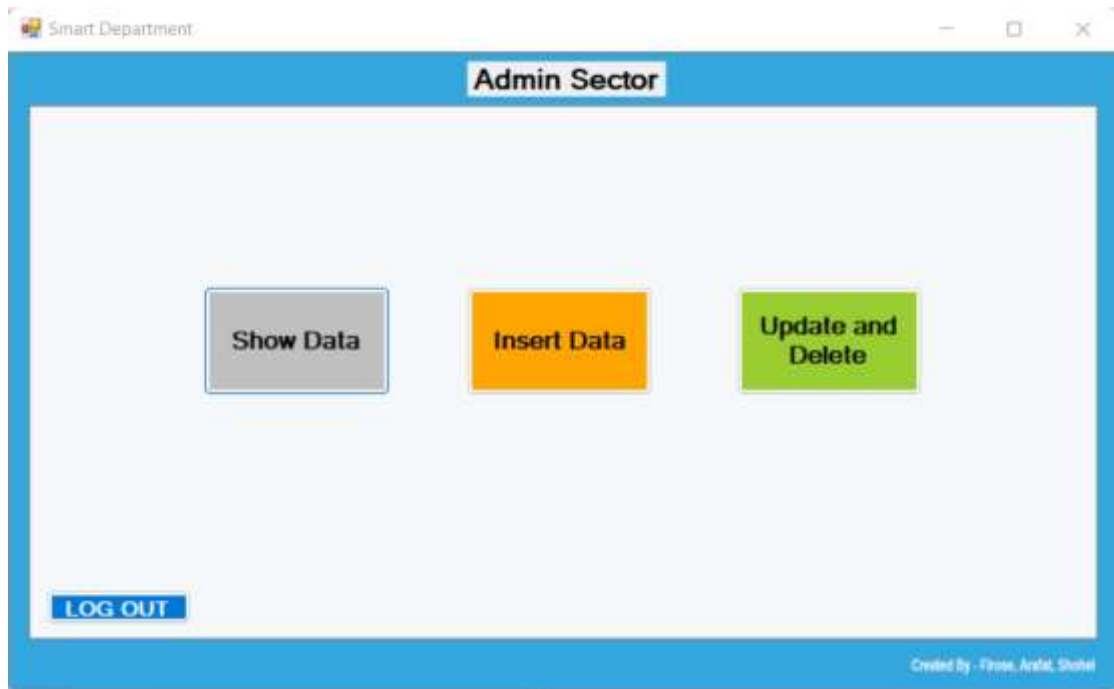


Figure-6 : Admin Show Data Page (Basic)

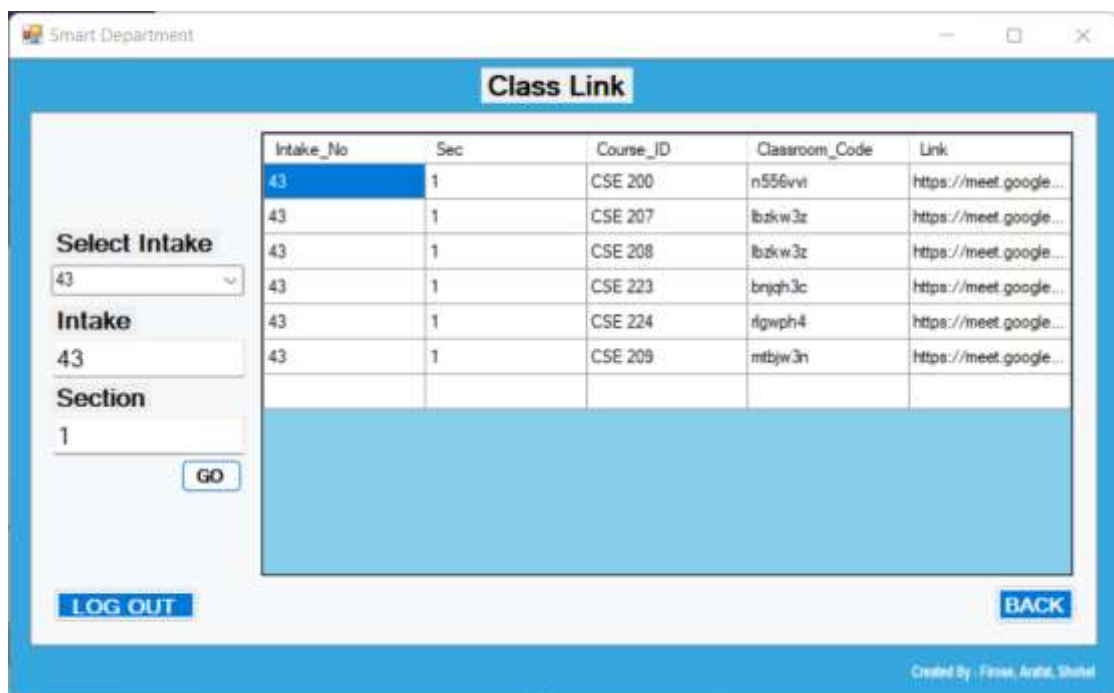


Figure-7 : Admin Show Data Page (Class Link)

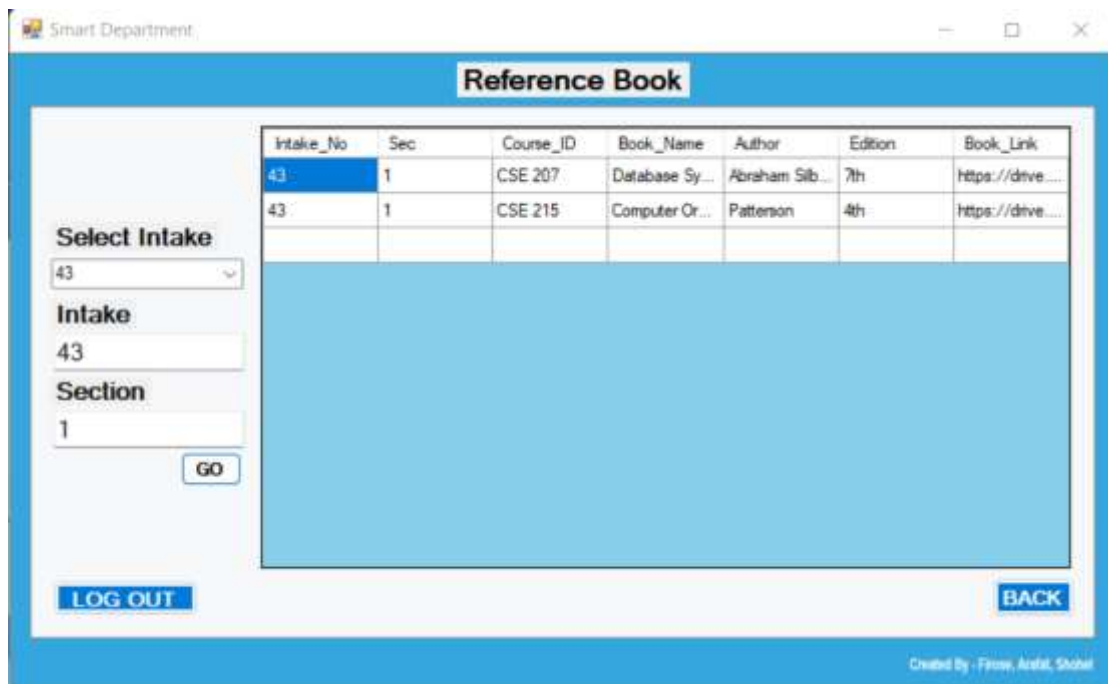


Figure-8 : Admin Show Data Page (Reference Book)



Figure-9 : Admin Show Data Page (Slide & Record)

Smart Department

Class Routine

Bangladesh University of Business and Technology
Class Routine - Summer Semester, 2021
Program : B.B.A. in CBE
Semester : 43, Section : 1

Select Intake

43

Intake

43

Section

1

View Routine

LOG OUT

Day/Detail	Period 1 08:00 to 09:00	Period 2 09:00 to 10:00	Period 3 10:00 to 11:00	Period 4 11:00 to 12:00	Period 5 12:00 to 13:00	Period 6 14:00 to 15:00	Period 7 16:00 to 17:00	Period 8 18:00 to 19:00
Monday		108-209 4501 8.2.8.213 58271	108-207 4501 8.2.8.213 58271					
Tuesday	108-209 4501 8.2.8.213 58271							
Wednesday		108-210 4501 8.2.8.213 58271			108-209 4501 8.2.8.213 58271	108-209 4501 8.2.8.213 58271		
Thursday					108-209 4501 8.2.8.213 58271	108-209 4501 8.2.8.213 58271	108-209 4501 8.2.8.213 58271	
Friday		108-210 4501 8.2.8.213 58271						
Saturday								

Created By : Firous, Arshad, Shafiq

Figure-10 : Admin Show Data Page (Routine)

Smart Department

Notice

Notice_Date	Type	Notice
02-11-2021	General	
02-11-2021	General	
03-11-2021	General	
08-11-2021	General	I will di

LOG OUT

BACK

BANGLADESH UNIVERSITY OF BUSINESS AND TECHNOLOGY (BUBT)
Plot # 17, New Road, Dhaka-1207, Bangladesh
 Phone: 9600 9600 or 9600 9601
 Fax: 9600 9602 or 9600 9603
 E-mail: admin@bibt.edu.bd, info@bibt.edu.bd

Notice for the Students of Trimester Programs

The students of different programs under the trimester system are hereby notified that:

- The online semester final examinations of the Summer Semester 2021 (Trimester) will start from November 26, 2021 to December 04, 2021 as per the Academic Calendar. The students are advised to complete their payment with all previous dues before the commencement of the exam.
- The impugned classes of the Fall Semester 2020-2021 (Trimester) will start from December 14, 2021. In this connection, students who are staying, should submit an affidavit to the Faculty members for their payment and other necessary issues. It is to be specially mentioned that, students who have got at least 17 days of the 17 days 17 students will be allowed to attend the impugned classes.

(Signature)
 Registrar
 BU-BT

Chairman/Chairwoman:

1. D.O. to the Vice-Chancellor
2. D.O. to the Registrar
3. D.O. to the Dean/Deputy Dean
4. Treasurer
5. Chair of all Faculties
6. Member, SSB & Program
7. Member of Examination
8. Chairman of all departments
9. Unit Director, Accounts
10. Deputy Registrar
11. Assistant Registrar, Admission/Examination
12. D.O. to the Dean
13. Office copy

Created By : Firous, Arshad, Shafiq

Figure-11 : Admin Show Data Page (Notice)

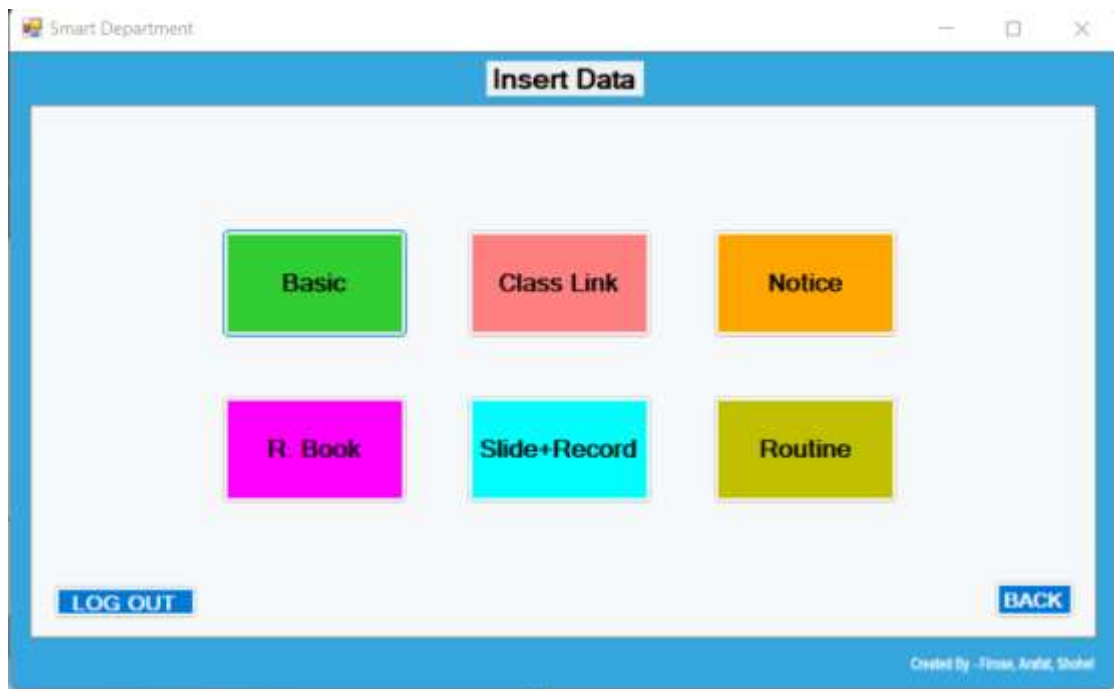


Figure-12 : Admin Insert Page

The image shows a web application window titled "Smart Department". The main content area has a blue header bar with the text "Insert Basic Data". Below this header, there is a light blue background with two sets of input fields. The left set consists of a label "Intake", a text input field, and a "GO" button. The right set consists of a label "Intake", a text input field, a "Select" dropdown menu, a label "Course ID", a text input field, a label "Course Name", a text input field, and a "GO" button. At the bottom left of the main area is a blue button labeled "LOG OUT", and at the bottom right is a blue button labeled "BACK". The footer of the window contains the text "Created By - Firas, Anah, Shohel".

Figure-13 : Admin Insert Data Page (Basic)

The screenshot shows a web application window titled "Smart Department". The main heading of the form is "Insert Class Link". The form contains the following fields and controls:

- Intake**: A text input field.
- Select**: A dropdown menu.
- Section**: A text input field.
- Course ID**: A text input field.
- Google Classroom Code**: A text input field.
- Class Link**: A text input field.
- GO**: A button located to the right of the "Class Link" field.
- LOG OUT**: A button in the bottom left corner.
- BACK**: A button in the bottom right corner.

At the bottom right of the window, there is a small text credit: "Created By : Firze, Ansh, Shubh".

Figure-14 : Admin Insert Data Page (Class Link)

The screenshot shows a web application window titled "Smart Department". The main heading of the form is "Insert Reference Book". The form contains the following fields and controls:

- Intake**: A text input field.
- Select**: A dropdown menu.
- Book Name**: A text input field.
- Section**: A text input field.
- Author Name**: A text input field.
- Course ID**: A text input field.
- Edition**: A text input field.
- Book Link**: A text input field.
- GO**: A button located to the right of the "Book Link" field.
- LOG OUT**: A button in the bottom left corner.
- BACK**: A button in the bottom right corner.

At the bottom right of the window, there is a small text credit: "Created By : Firze, Ansh, Shubh".

Figure-15 : Admin Insert Data Page (Reference Book)

The screenshot shows a web application window titled "Smart Department" with a blue header bar containing the text "Insert Slide And Record". The main content area is light blue and contains several form fields: "Intake" (text input), "Section" (text input), "Course ID" (text input), "Select" (dropdown menu), "Perform Date" (text input with a date picker showing "24-11-2021"), "Slide Link" (text input), and "Record Link" (text input). There are "LOG OUT" and "BACK" buttons at the bottom left and right respectively. A "GO" button is located next to the "Record Link" field. The footer text reads "Created By : Firas, Arsal, Shihab".

Figure-16 : Admin Insert Data Page (Slide & Record)

The screenshot shows a web application window titled "Smart Department" with a blue header bar containing the text "Insert Notice". The main content area is light blue and contains a large blue rectangular placeholder for an image on the left. To the right of the placeholder are form fields: "Published On" (text input with a date picker showing "24-11-2021"), "Type" (dropdown menu), and an "Add File" button. There are "LOG OUT" and "BACK" buttons at the bottom left and right respectively. A "GO" button is located next to the "Add File" button. The footer text reads "Created By : Firas, Arsal, Shihab".

Figure-17 : Admin Insert Data Page (Notice)

The screenshot shows a web application window titled "Smart Department" with a standard window control bar. The main content area is titled "Insert Class Routine". On the left, there is a large, empty light blue rectangular box. To the right of this box, there are two input fields: "Intake" and "Section", both with text input areas. Above the "Section" field is a "Select" dropdown menu. Below the "Intake" field is an "Add File" button. To the right of the "Add File" button is a "GO" button. At the bottom left of the main content area is a "LOG OUT" button, and at the bottom right is a "BACK" button. The footer of the window contains the text "Created By : Firze, Ansh, Shohel".

Figure-18 : Admin Insert Data Page (Routine)

The screenshot shows a web application window titled "Smart Department" with a standard window control bar. The main content area is titled "Update and Delete Data". It features six colored buttons arranged in a 2x3 grid: "Basic" (green), "Class Link" (red), "Notice" (orange) in the top row, and "R. Book" (magenta), "Slide+Record" (cyan), "Routine" (olive) in the bottom row. At the bottom left of the main content area is a "LOG OUT" button, and at the bottom right is a "BACK" button. The footer of the window contains the text "Created By : Firze, Ansh, Shohel".

Figure-19 : Admin Update & Delete Page

Smart Department

Course Information

Select Intake

GO

Intake

Course ID

Course Name

DELETE

UPDATE

LOG OUT

BACK

Created By - Firoze, Ahsan, Shohel

Figure-20 : Admin Update & Delete Data Page (Basic)

Smart Department

Class Link

Select Intake

GO

Intake

Section

Course ID

Google Classroom Code

Class Link

DELETE

UPDATE

LOG OUT

BACK

Created By - Firoze, Ahsan, Shohel

Figure-21 : Admin Update & Delete Data Page (Class Link)

Smart Department

References Books

Select Intake

 GO

Intake

Section

Course ID

Book Name

Author Name

Book Link

Edition

LOG OUT

DELETE

UPDATE

BACK

Created By - Firoze, Anshul, Shubel

Figure-22 : Admin Update & Delete Data Page (Reference Book)

Smart Department

Slides and Class Records

Select Intake

 GO

Intake

Section

Performed Date

Course ID

Slide Link

Record Link

LOG OUT

DELETE

UPDATE

BACK

Created By - Firoze, Anshul, Shubel

Figure-23 : Admin Update & Delete Data Page (Slide & Record)



Figure-24 : Admin Update & Delete Data Page (Routine)

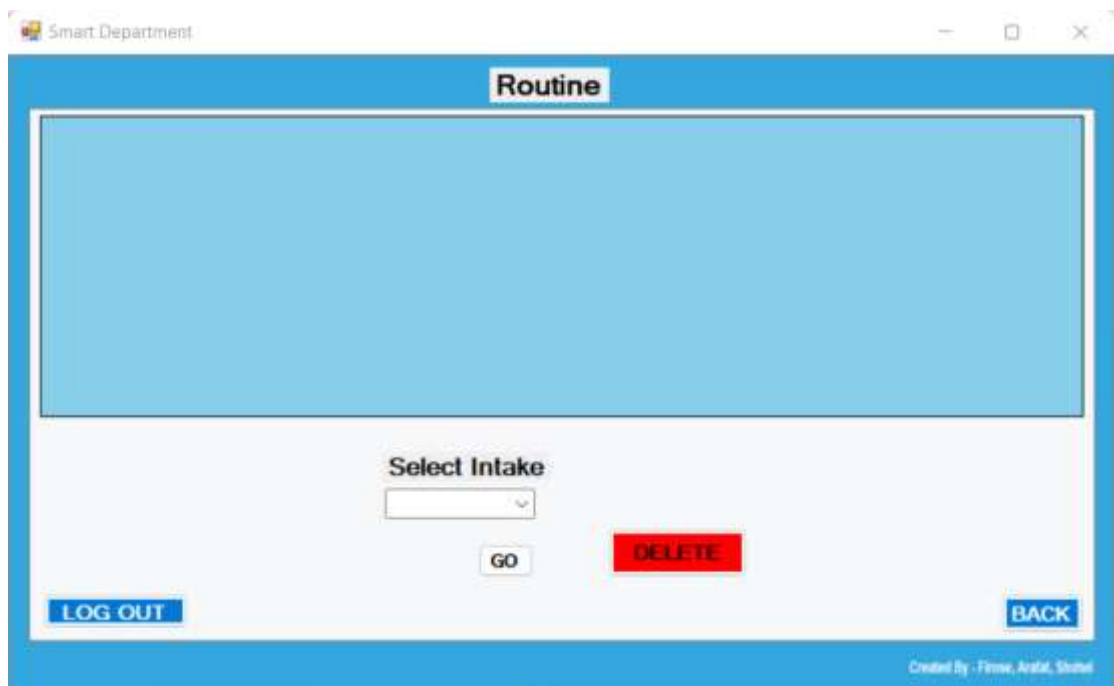



Figure-25 : Admin Update & Delete Data Page (Notice)

5.1.2 Student Panel:

In the student panel the user have to registration with some personal information and then he/she can login to the software using the username and password. Then he/she can only view his/her needed data



The screenshot shows a web application window titled "Smart Department" with a "Student Registration Form" header. The form contains several input fields: "Full Name", "Email", "Username (ID)", "Phone", "Intake", "Section", and "Password (Max 8 char)". There is also a "Select" dropdown menu. A "SUBMIT" button is located at the bottom right of the form area, and a "BACK" button is in the bottom right corner of the window. The footer text reads "Created By - Firoze, Anshul, Shikhar".

Figure-26 : Student Registration Page

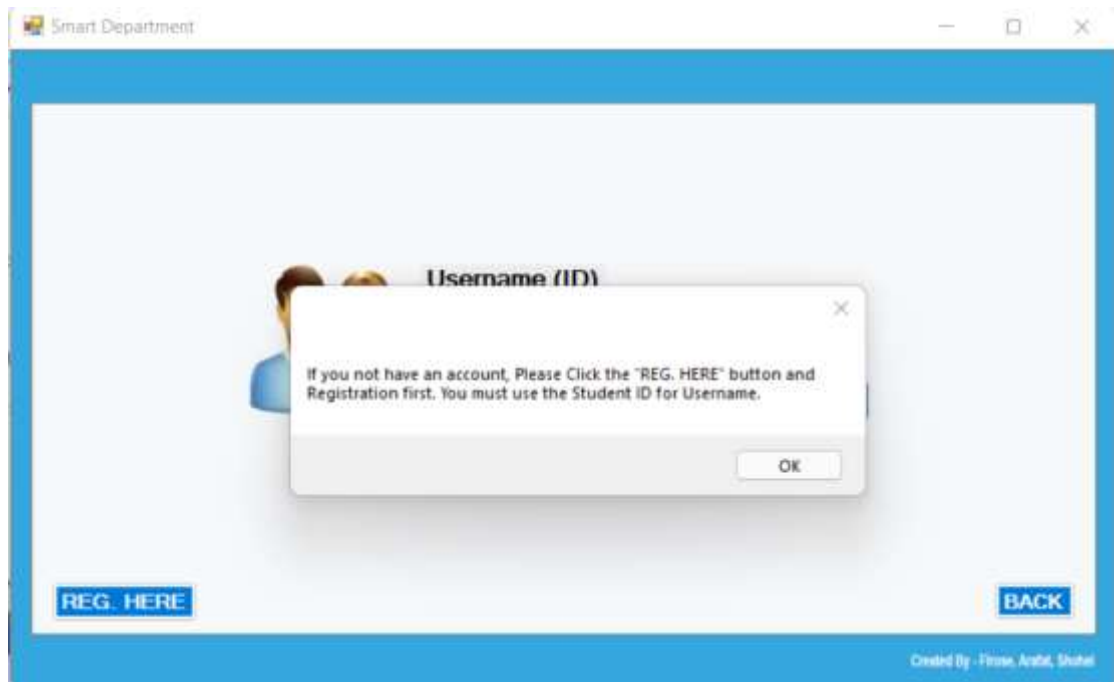


Figure-27 : Student Login Page

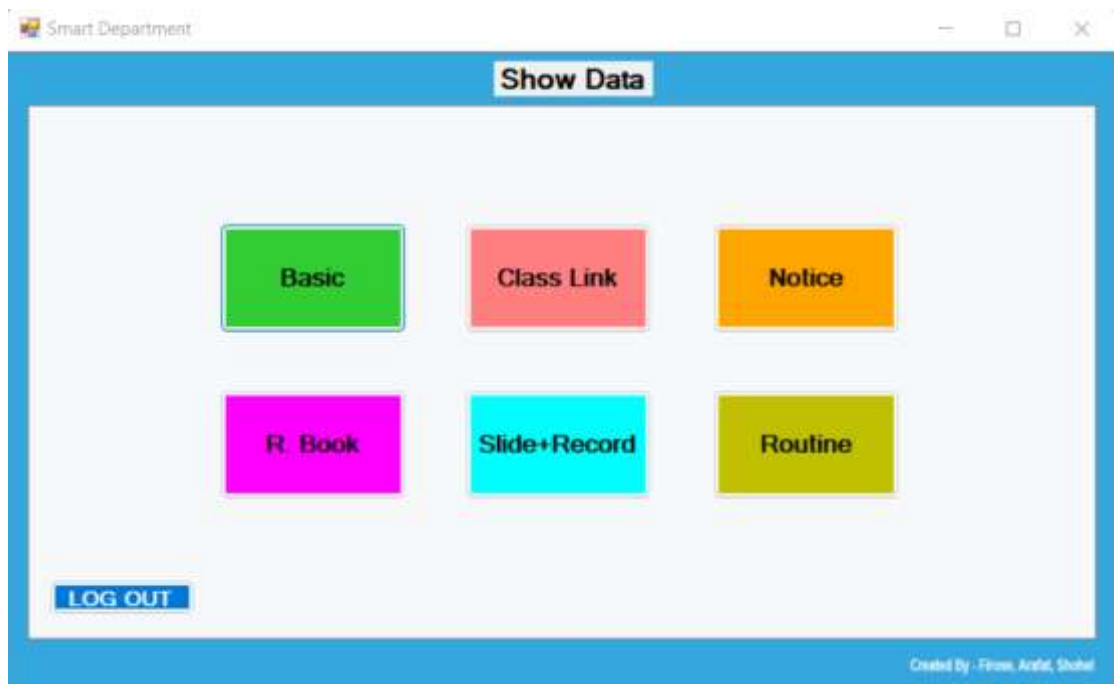


Figure-28 : Student Show Data Page

Smart Department

Course Information

Course_ID	Course_Name
kkhth	fggg

Select Intake
43

Intake
43

GO

LOG OUT

BACK

Created By : Firas, Ansh, Shafiq

Figure-29 : Student Show Data Page (Basic)

Smart Department

Class Link

Course_ID	Classroom_Code	Link
CSE 200	n556vvi	https://meet.google.com/qvg-dokf-...
CSE 208	lbzkw3z	https://meet.google.com/gye-ndf-w...
CSE 223	bnjgh3c	https://meet.google.com/omj-uayk-...

Select Intake
43

Intake
43

Section
1

GO

LOG OUT

GO LINK

BACK

Created By : Firas, Ansh, Shafiq

Figure-30 : Student Show Data Page (Class Link)

Smart Department

Reference Book

Course_ID	Book_Name	Author	Edition	Book_Link
CSE 207	Database System C...	Abraham Silberschatz	7th	https://drive.google.com/file/d/1r5JW80eJV54XyYsh79TzeSPvKyfWzMLH/view?usp=sharing
CSE 215	Computer Organizat...	Patterson	4th	https://drive.google.com/file/d/1r5JW80eJV54XyYsh79TzeSPvKyfWzMLH/view?usp=sharing

Select Intake
43

Intake
43

Section
1

GO

LOG OUT

<https://drive.google.com/file/d/1r5JW80eJV54XyYsh79TzeSPvKyfWzMLH/view?usp=sharing>

GO LINK BACK

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Figure-31 : Student Show Data Page (Reference Book)

Smart Department

Slide And Class Record

Course_ID	Slide_Link	Record_Video
CSE 209	https://docs.google.com/presentation/d/15gBL0KcPcJhNcOQx85Umo0DR6Xyu7Y0/edit?usp=sharing	https://drive.google.com/file/d/1g2s96t_qD0suEy8HroibBUnBzFOV11p/view?usp=sharing

Select Intake
43

22-08-2021

Intake
43

Section
1

Perform Date
22-08-2021

GO

LOG OUT

<https://docs.google.com/presentation/d/15gBL0KcPcJhNcOQx85Umo0DR6Xyu7Y0/edit?usp=sharing>

https://drive.google.com/file/d/1g2s96t_qD0suEy8HroibBUnBzFOV11p/view?usp=sharing

SLIDE RECORD BACK

Created By : Firoz, Anshul, Shubel

Figure-32 : Student Show Data Page (Slide & Record)

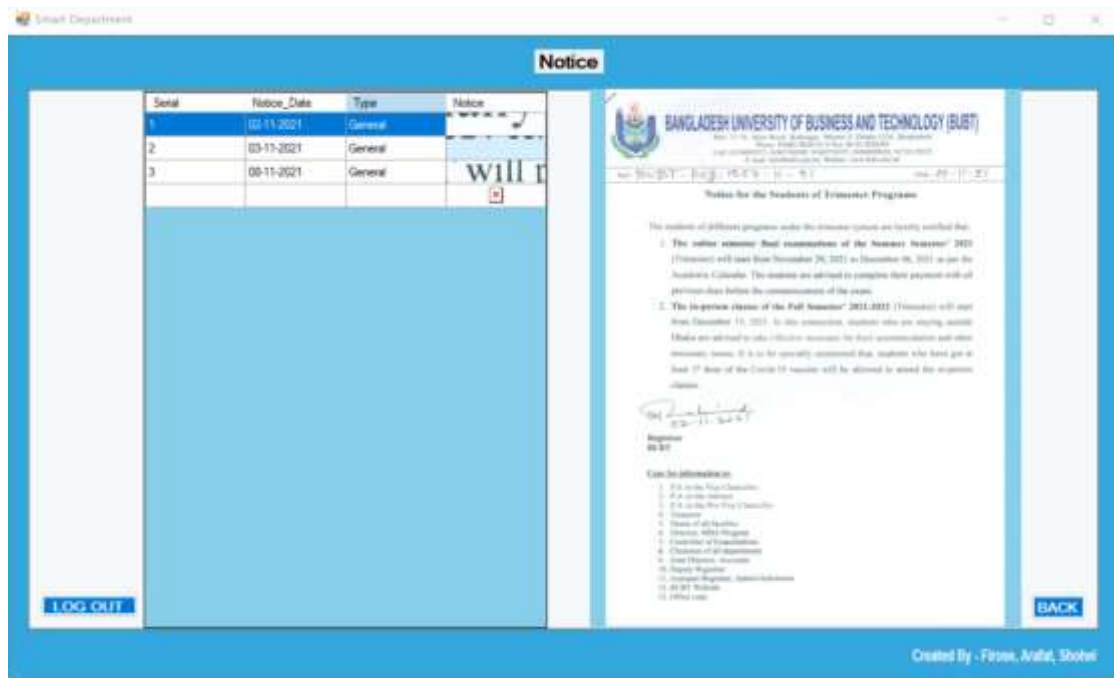


Figure-34 : Student Show Data Page (Notice)

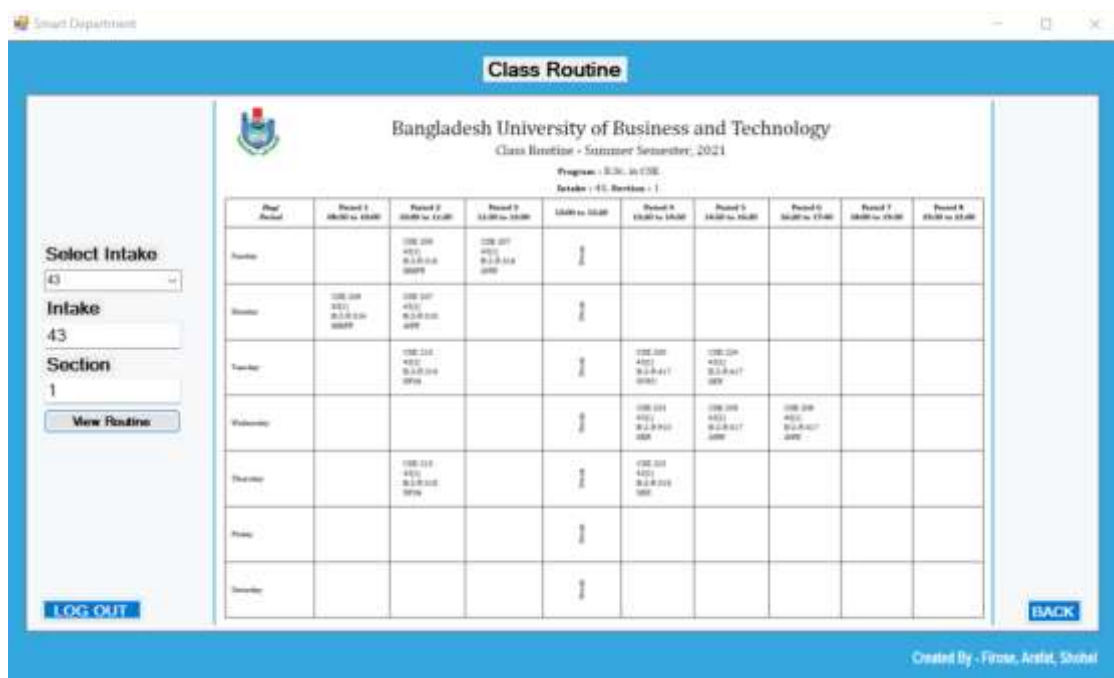
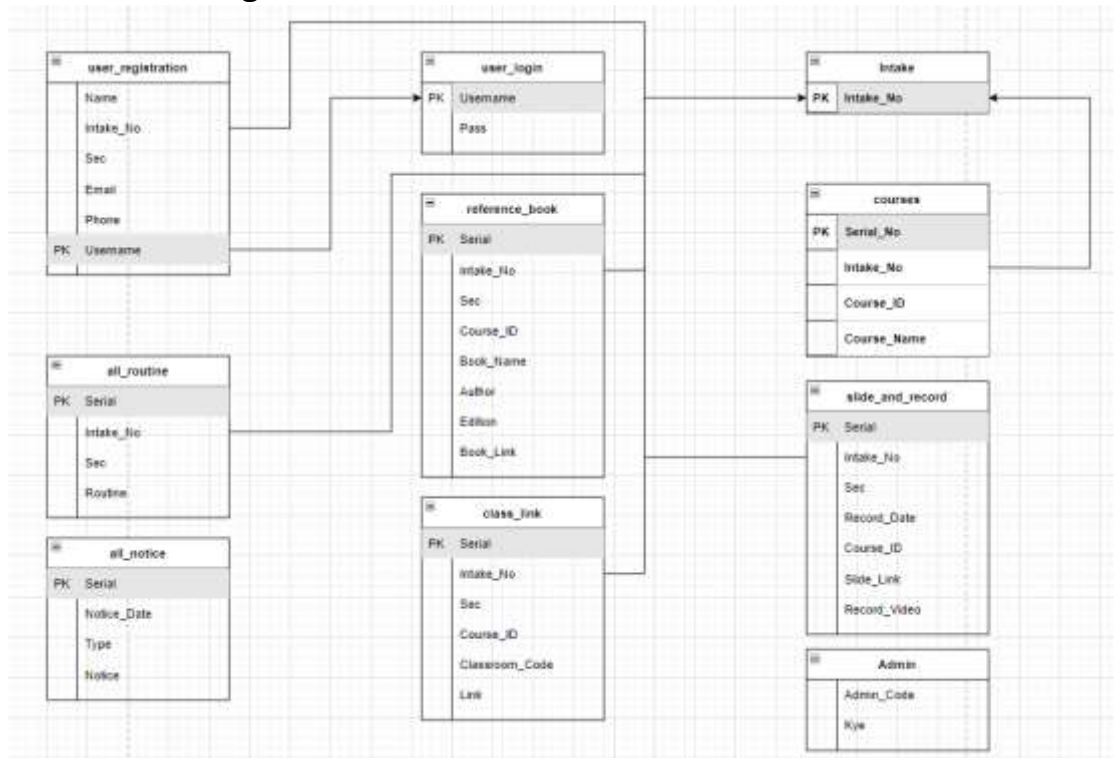


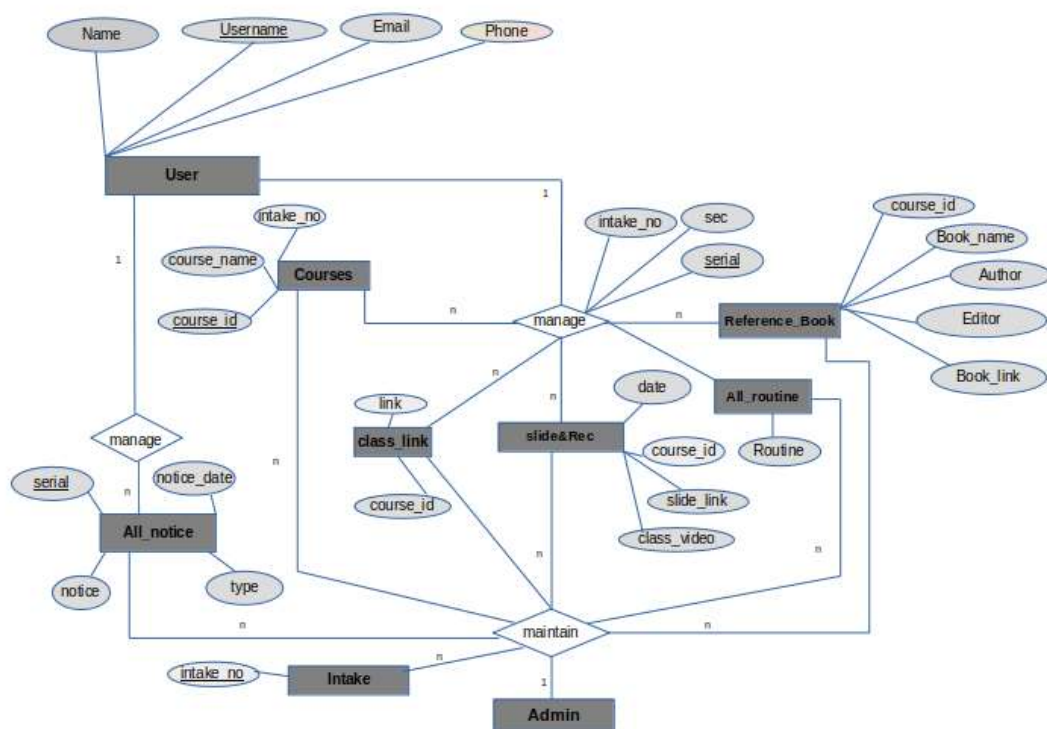
Figure-33 : Student Show Data Page (Routine)

6. Diagram

6.1 Schema diagram:



6.2 ER Diagram:



7. Future work

1. We want to make this software more user friendly.
2. We will an option for reporting bugs for fixing bugs (if any) or suggestions for better support.
3. We will add an option as “Previous Question” for students if BUBT Authority allow us.

8. Conclusion

We started this project when we had very few concepts about the C# language and its different usage. During the project preparation we were introduced with the new concepts and new elements of C# language along with the progression of the course. We were able to apply all those theoretical C# concepts taught to us in our application to make it more and more functional. Over time, we've worked to make our project more compact and more user-friendly. During this period we learned various C# programming concepts and now in position to design in the error free program successfully.

Overall the team feels that the project is pretty successful although we did face a few problems here and there but we came to know the various C# programming techniques. We learned to make the variables and constants either global or local. Then we also learned the practical way of implementing the structures in the program and access the members of structures, compare them, initialize them and so on. The implementation of techniques like string comparison, function calling, recursion, array storage, using file for storage, and calling by value or reference has broaden my knowledge regarding C# language.

9. Reference

BUBT Official Website: <https://www.bubt.edu.bd>

BUBT ANNEX: <https://annex.bubt.edu.bd/>

BUBT Notice Board: https://www.bubt.edu.bd/Home/all_notice