

## **SECTION Q;**

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### **Title: Implementation of Google Classroom - Project Report**

#### **Introduction:**

The goal of this project is to implement a web-based platform, similar to Google Classroom, to streamline the teaching and learning process in educational institutions. The platform will have two major panels: the Teacher Panel and the Student Panel. The Teacher Panel allows teachers to manage classes, create and grade assignments, communicate with students, and view progress reports. The Student Panel enables students to enroll in classes, submit assignments, and interact with teachers.

#### **Approach:**

To solve the problem, we followed a systematic approach involving the following steps:

##### **2.1. Requirement Gathering:**

We identified the key functionalities for both the Teacher Panel and the Student Panel based on the requirements mentioned in the project description. These functionalities include class management, announcements, assignments, class materials, deadlines, grading, comments, and reporting.

##### **2.2. Design:**

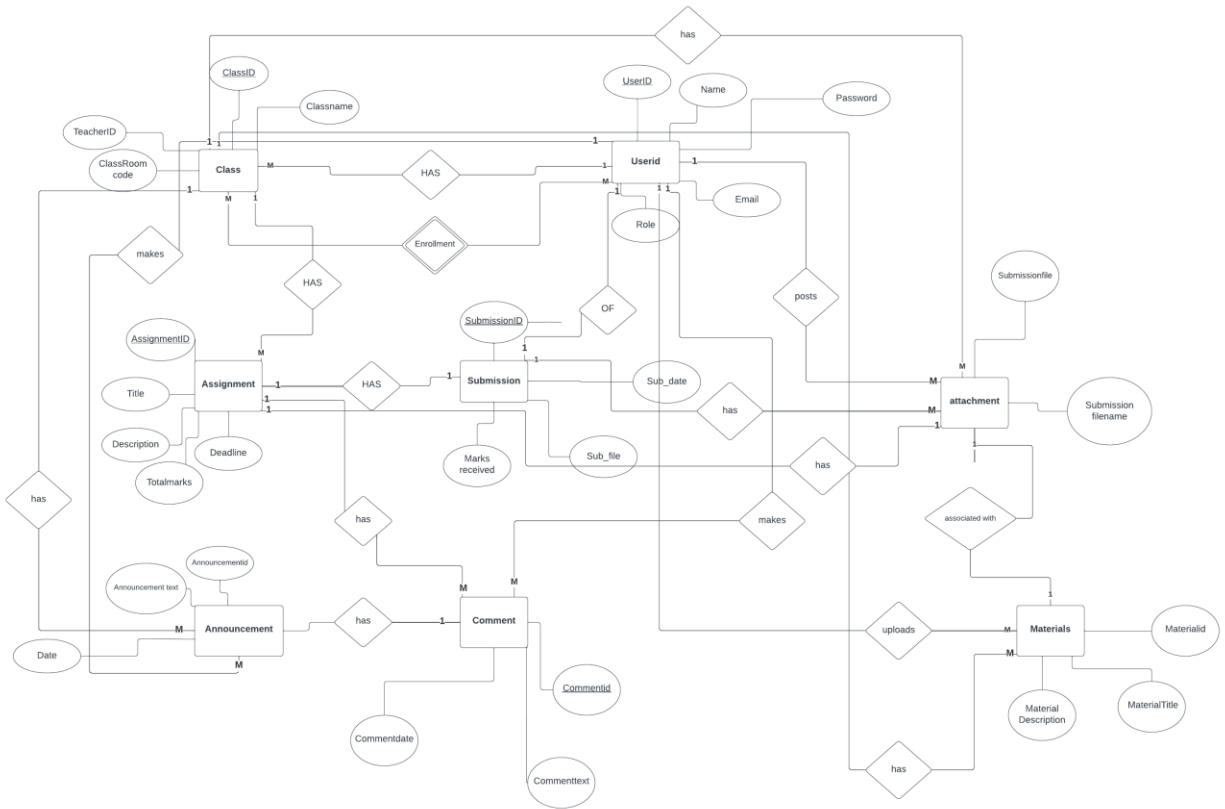
We designed user interface for both panels. The design focused on providing a user-friendly experience with clear navigation and intuitive controls. We also designed the database schema to store and manage the necessary data.

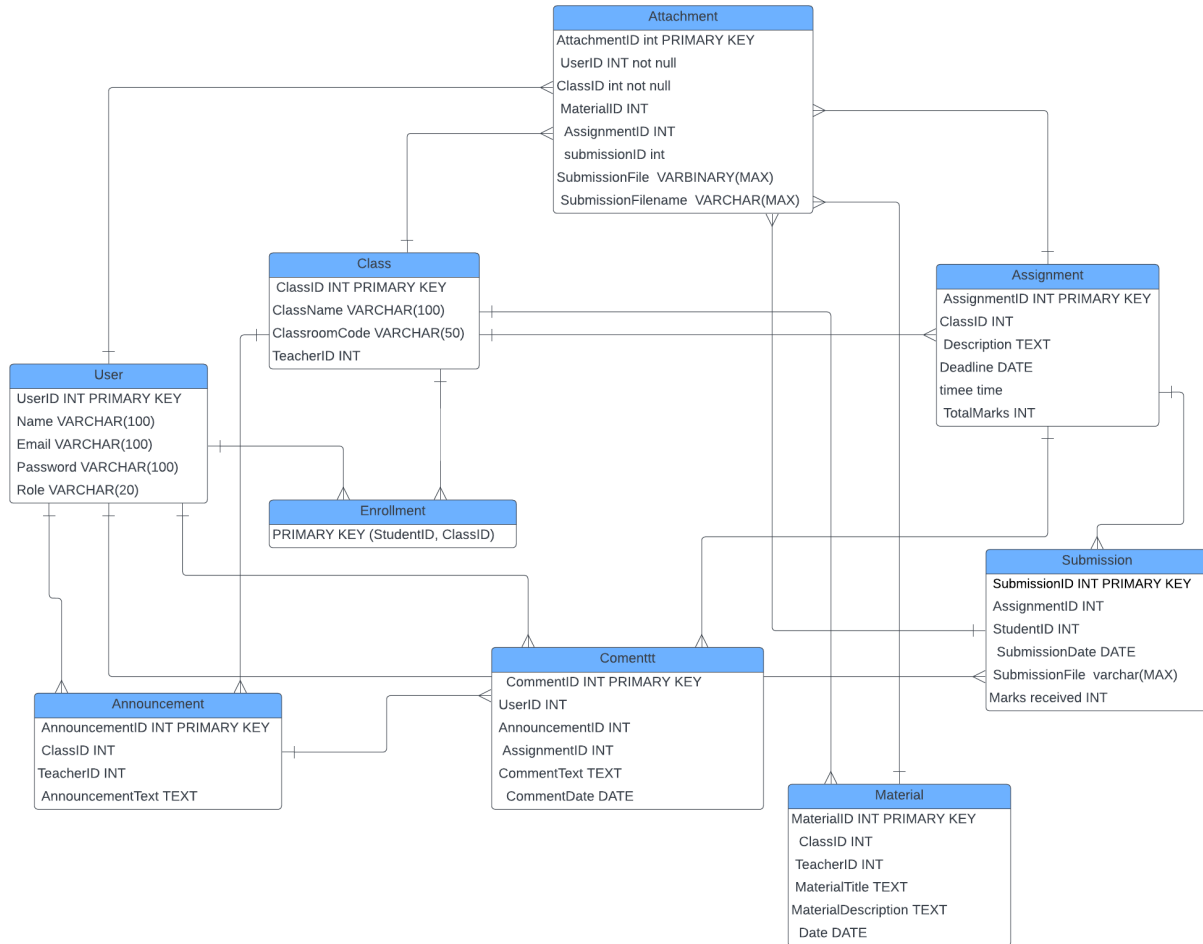
##### **2.3. Development:**

The implementation phase involved developing the frontend C# and backend SQL SERVER components of the system.

## Entity Relationship Diagram (ERD)/Enhanced Entity Relationship Diagram (EERD):

We created an ERD/EERD to model the database structure for the system. The diagram captures the relationships between all entities.





## Screenshots of Reports Generated:

To demonstrate the functionality of the system, we generated sample reports showcasing the following:

### REGISTRATION:

Register

Login?

Email :

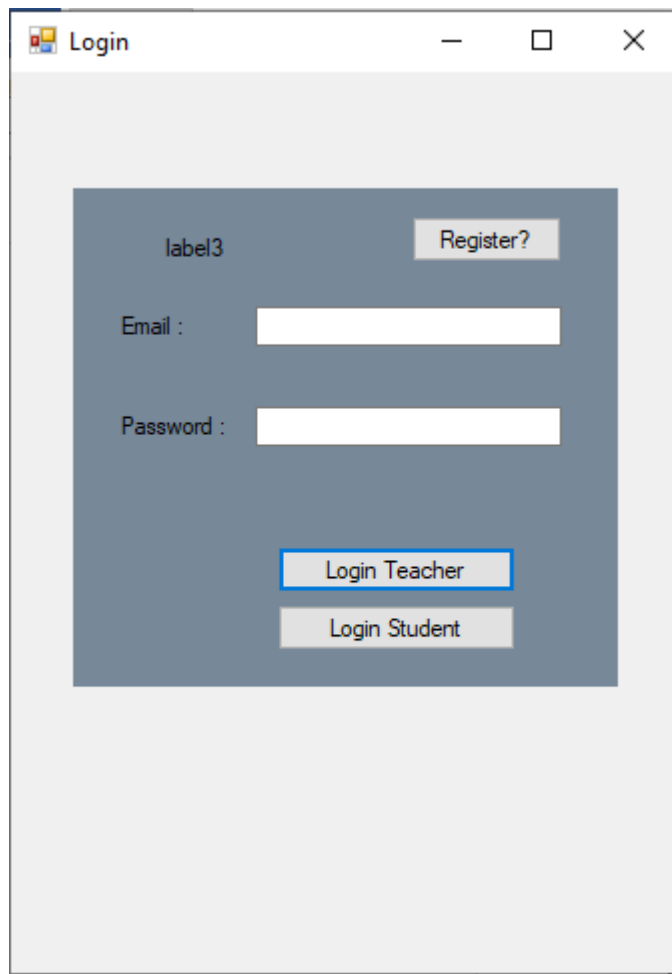
Password :

Type :

Name :

Register

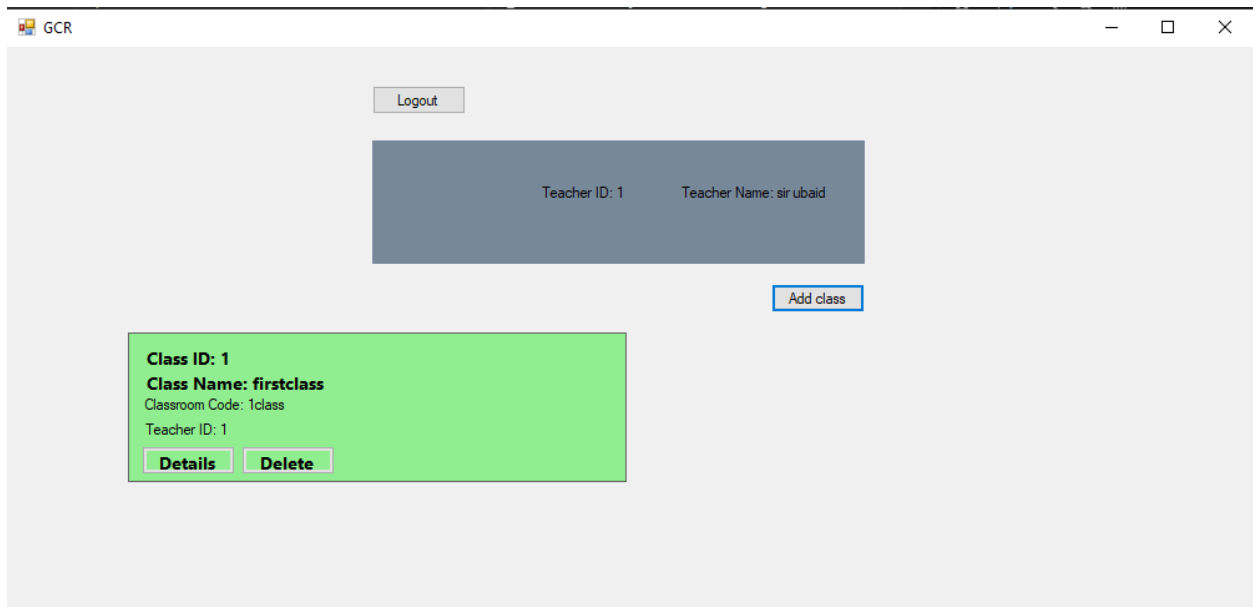
LOGIN:



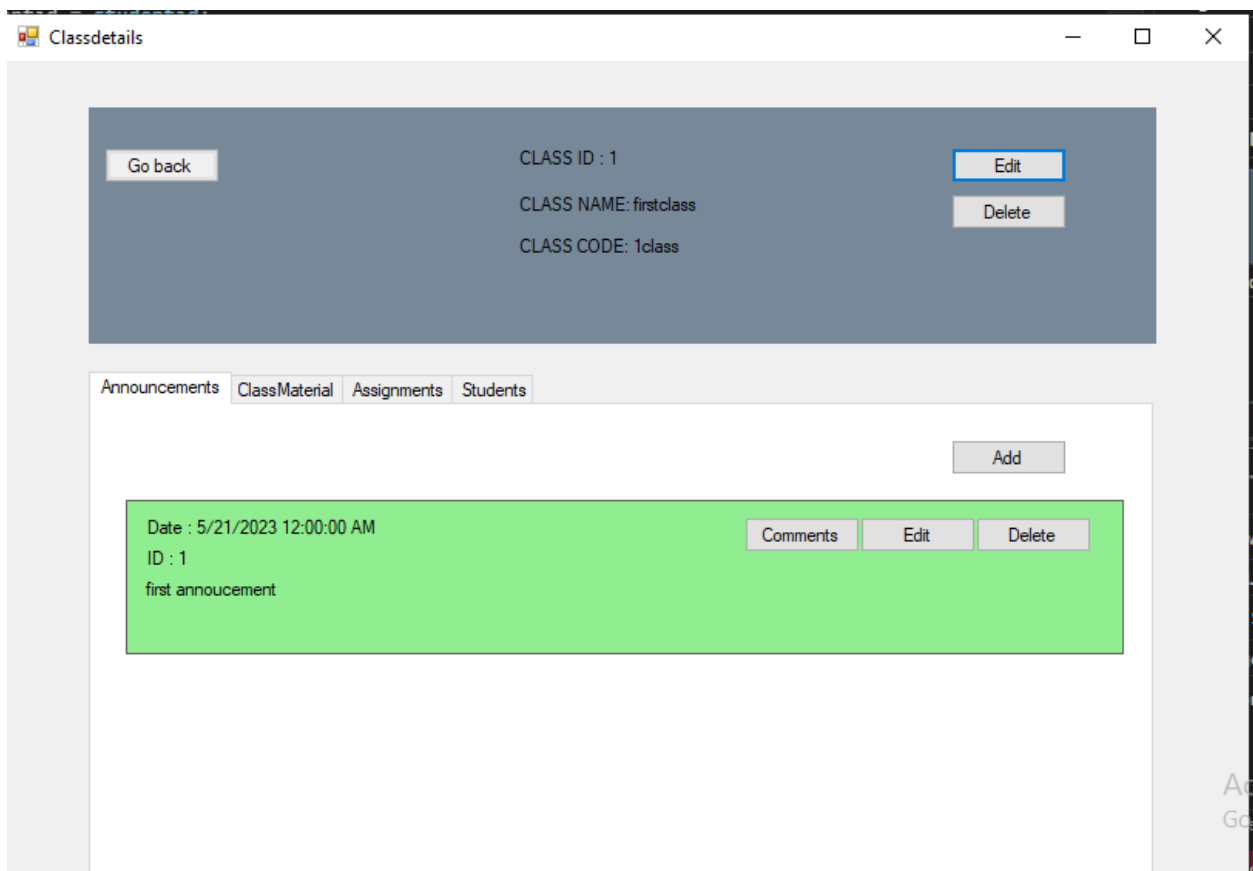
A screenshot of a Java Swing window titled "Login". The window has a standard title bar with a red close button, a yellow maximize button, and a green minimize button. The main content area is light gray and contains a dark blue rectangular panel. Inside this panel, there is a label "label3" at the top left. To its right is a button labeled "Register?". Below "label3" are two text input fields: the first is preceded by the text "Email :" and the second by "Password :". At the bottom of the blue panel are two buttons: "Login Teacher" (which has a blue border) and "Login Student".

## 4.1. Teacher Panel Reports:

TEACHER HOMEPAGE:



## CLASS ANNOUCEMENT DETAIL



## CLASS MATERIAL

Classdetails

Go back

CLASS ID : 1

CLASS NAME: firstclass

CLASS CODE: 1class

Edit

Delete

Announcements

ClassMaterial

Assignments

Students

Add

Decription : desc

ID : 1

Title : firstclass material

Details

Delete

Act  
Go t

## CLASS ASSIGNMENT

Classdetails

Go back

CLASS ID : 1

CLASS NAME: firstclass

CLASS CODE: 1class

Edit

Delete

Announcements

ClassMaterial

Assignments

Students

Add

ID : 1

Date : 12/12/2012 12:00:00 AM

Title : firstassignment

Details

Delete

## STUDENT ENROLL IN CLASS



Classdetails

Go back

CLASS ID : 1

CLASS NAME: firstclass

CLASS CODE: 1class

Edit

Delete

Announcements

ClassMaterial

Assignments

Students

User ID: 2

Name: taimoor

Email: 2

Act  
Go 1

**ANNOUCEMENT COMMENT:**

Announcementcommentsteacher

Go back

Announcement :

ID : 1

DATE : 5/21/2023 12:00:00 AM

TEXT :first annoucement

New comment :

Send

Comment ID: 1  
Comment Date: 5/21/2023 12:00:00 AM  
Comment: annoucement first comment

Delete

Comment ID: 3  
Comment Date: 5/21/2023 12:00:00 AM  
Comment: annoucement second comment

Delete

## MATERIAL DETAIL:

Materialdetails

Go back

Title :

firstclass material

Edit

Date :

5/21/2023 12:00:00 AM

Description :

desc

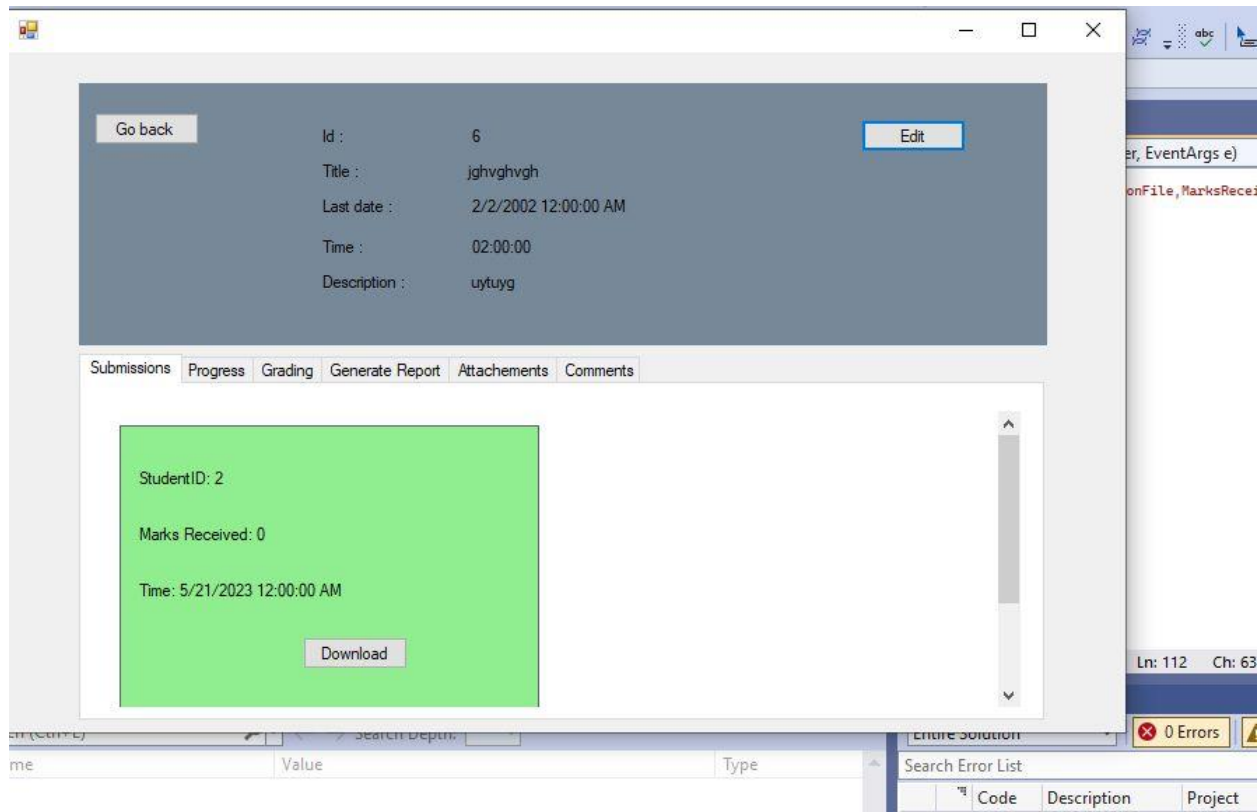
Name of File : i211102\_Prob\_Assignment\_05 (1).pdf

Delete

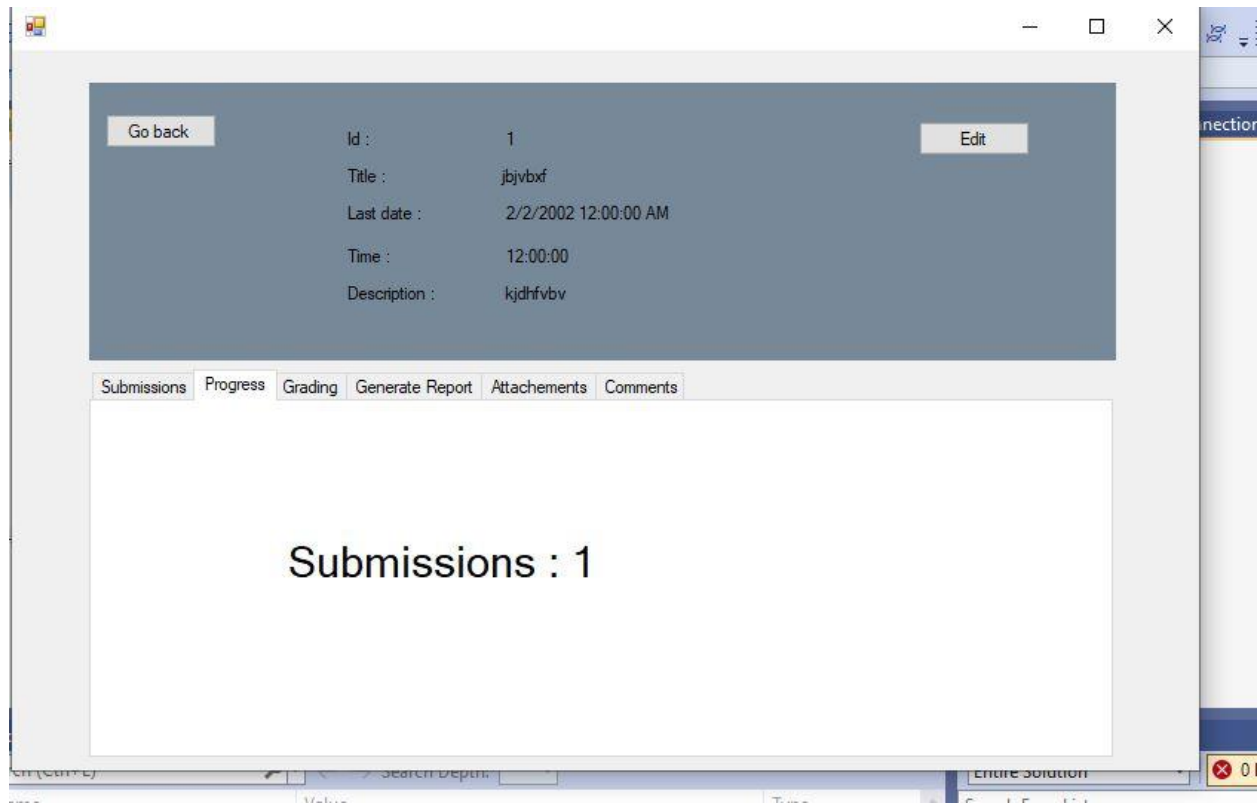
Download

Add New Attachment

## ASSIGNMENT SUBMISSION:



#### ASSIGNMENT PROGRESS:



## ASSIGNMENT GRADING

The screenshot shows a web application window titled "Assignment Grading". It features a dark blue header bar with a "Go back" button on the left and an "Edit" button on the right. Below the header, the submission details are displayed in a light blue box:

Id :	6
Title :	jghvghvgh
Last date :	2/2/2002 12:00:00 AM
Time :	02:00:00
Description :	uytuyg

Below the details box is a tabbed interface with tabs for "Submissions", "Progress", "Grading", "Generate Report", "Attachments", and "Comments". The "Grading" tab is currently selected, showing a green box with the following form:

Roll Number:

Marks Received:

## ASSIGNMENT REPORT:

The screenshot shows the same web application window, but now the "Generate Report" tab is selected. The submission details box remains the same. The report form, displayed in a green box, contains the following information:

Roll Number : 2    Submission ID: 4

Submission Date : 5/21/2023 12:00:00 AM

Marks obtained : 0

## ASSIGNMENT ATTACHMENT:

Go back

Id :

1

Edit

Title :

firstassignment

Last date :

12/12/2012 12:00:00 AM

Time :

11:59:00

Description :

desc

Submissions

Progress

Grading

Generate Report

Attachments

Comments

Add new attachment

Name of File : i211102\_Prob\_Assignment\_05 (1).pdf

Delete

## ASSIGNMENT COMMENT:

Go back

Id : 1

Title : firstassignment

Last date : 12/12/2012 12:00:00 AM

Time : 11:59:00

Description : desc

Edit

Submissions Progress Grading Generate Report Attachements Comments

New comment :

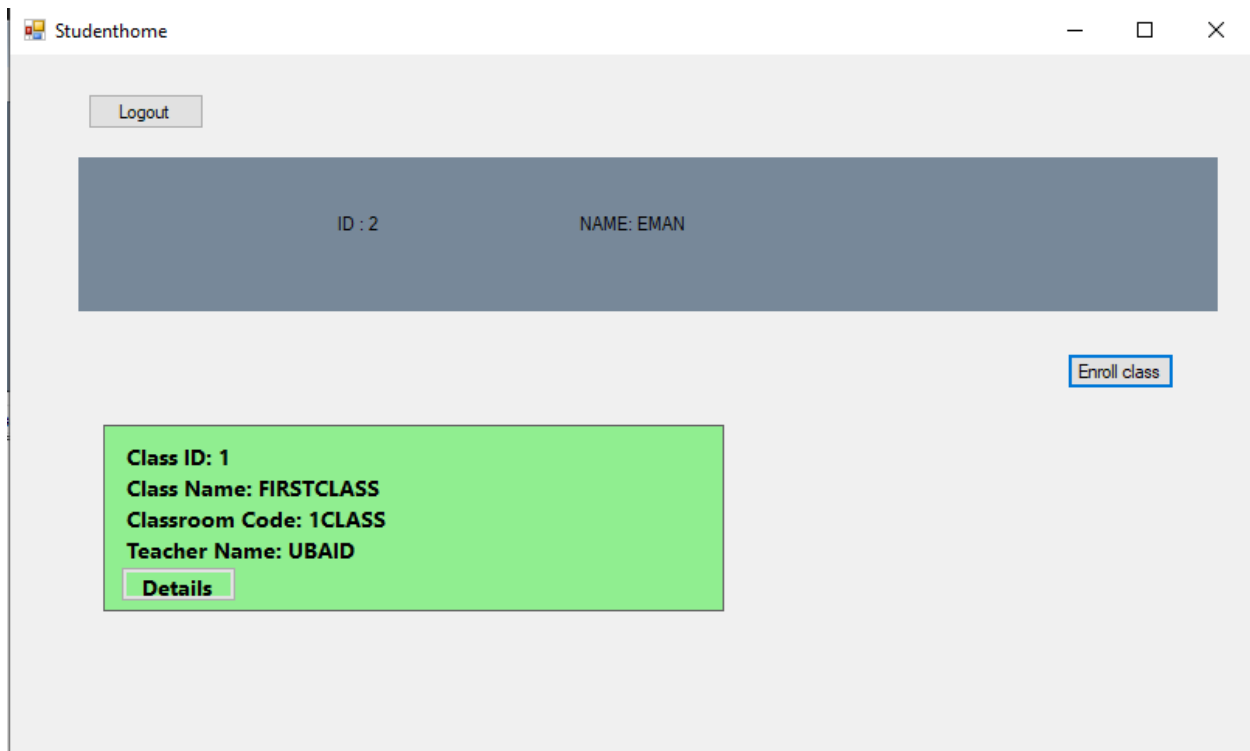
Send

Comment ID: 2  
Comment: assignment first comment  
Date: 2023-05-21  
User: sir ubaid

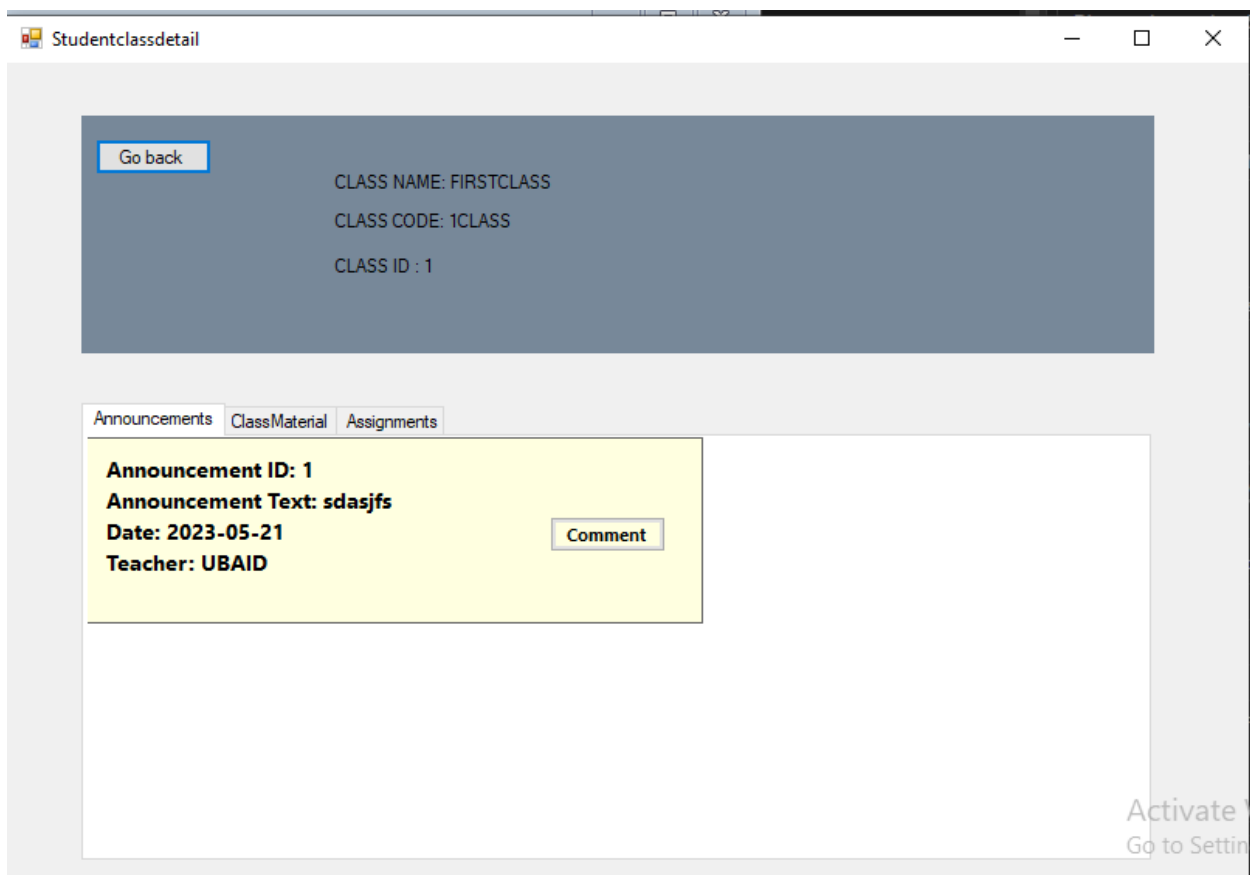
Delete

## 4.2. Student Panel Reports:

### STUDENT HOME:



### CLASS ANNOUNCEMENT:



## STUDENT CLASS MATERIAL:

Studentclassdetail

Go back

CLASS NAME: FIRSTCLASS  
CLASS CODE: 1CLASS  
CLASS ID : 1

Announcements

ClassMaterial

Assignments

Decription : qwertyu  
ID : 1  
Title : tytytt

Details

Activate Windows  
Go to Settings to activate Windows.



## STUDENT ASSIGNMENT

Studentclassdetail

Go back

CLASS NAME: FIRSTCLASS  
CLASS CODE: 1CLASS  
CLASS ID : 1

Announcements

ClassMaterial

Assignments

ID : 1  
Date : 12/12/2012 12:00:00 AM  
Title : FIRST

Details

Comments

Activate Windows  
Go to Settings to activate Windows.

ASSIGNMENT SUBMISSION:

Assignmentdetailsstudent

Go back

Title :	FIRST	
Date :	12/12/2012 12:00:00 AM	
Time :	11:59:00	Marks : 0
Description :	SFSDJFSJFSJF	Unsubmit

Name of File : i211102\_Prob\_Assignment\_05 (1).pdf

Download

#### ANNOUNCEMENT COMMENT STUDENT:

Announcementcommentsstudent

Go back

Announcement :

ID : 1	DATE : 5/21/2023 12:00:00 AM
TEXT : sdasjfs	

New comment :

Send

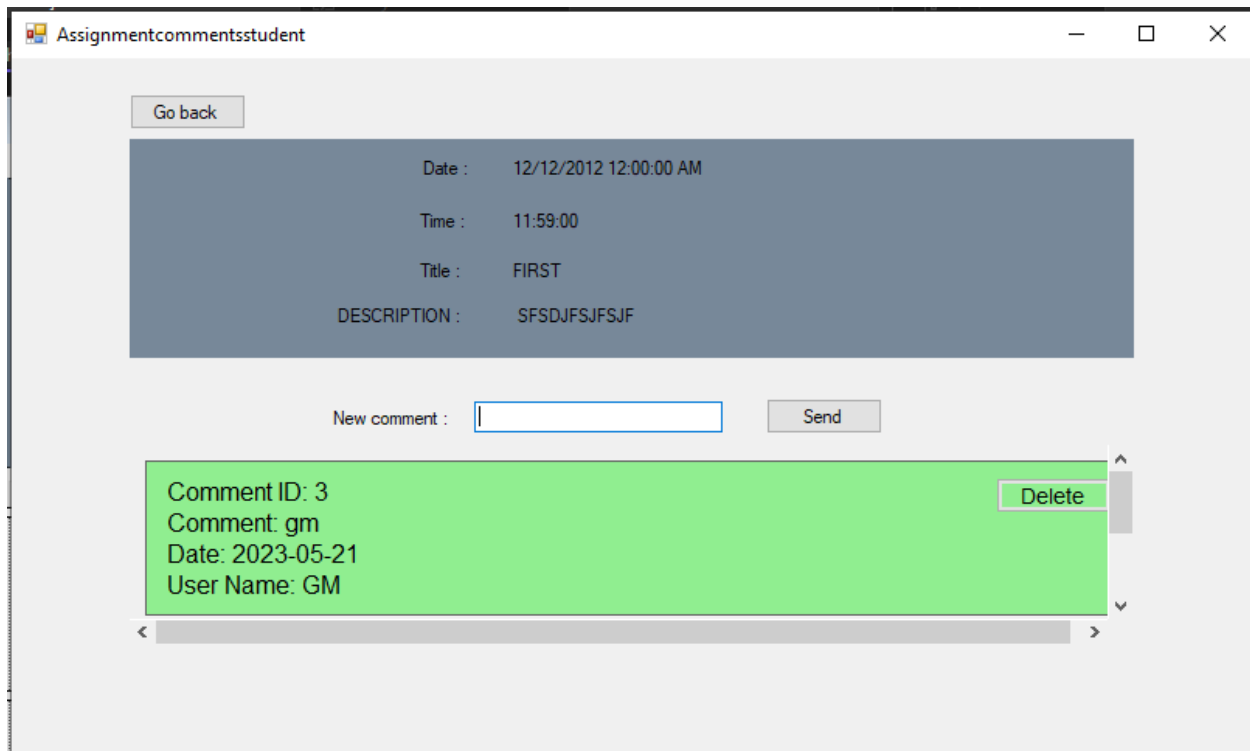
Name: UBAID  
Comment: bsbjkafs  
Date: 5/21/2023 12:00:00 AM

Delete

Name: GM  
Comment: njfsjkfj  
Date: 5/21/2023 12:00:00 AM

Delete

#### ASSIGNMENT COMMENT STUDENT:



### Lessons Learned:

Throughout the implementation of this project, we gained valuable insights and learning experiences.

5.2. System design and architecture: We learned how to design an effective and intuitive user interface, as well as the importance of a well-structured database schema to support the required functionalities.

### Conclusion:

In conclusion, the implementation of the Google Classroom-like platform successfully addressed the goals and functional requirements mentioned in the project description. The system provides teachers and students with a streamlined and secure online environment for managing classes, assignments, and communication.

Overall, this project provided an excellent opportunity to enhance our skills on frontend C# and backend SQL.