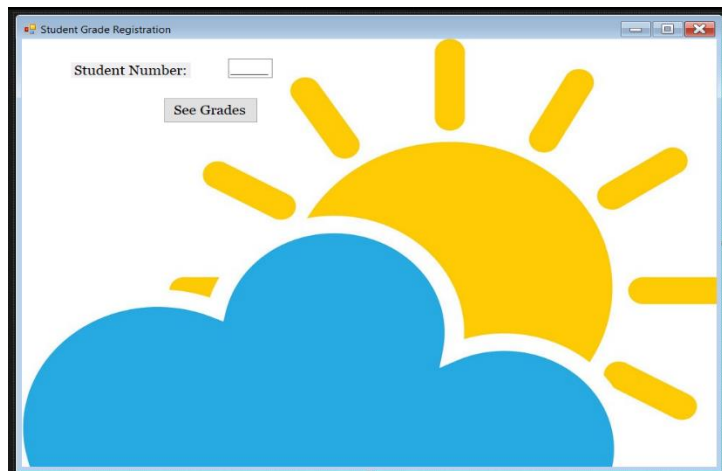


## STUDENT GRADE REGISTRATION

- Hello everyone! In this tutorial, we are going to build a C# WinForm App that is used for Student Grade Registration (Requirements: Microsoft Visual Studio and MS SQL Server).
- The main use of this program is to register students and their grades into the system. This app is developed for only one class so if you would like to extend for extra classes, you can contact me by [onurtotos@gmail.com](mailto:onurtotos@gmail.com) or by searching for <https://onurtotos.com> on Google.
- First of all, we need to create a database to save all the information. MS SQL server used for database purposes.
- We also need to think about the design of the application. Here are the steps that I thought for the design:
  - The teacher will have a private code for accessing the registration system (such as typing 1111).
  - The teacher will be able to search for each student's grade by entering their student number.
  - Once the teachers access the student grade system, they can easily add, delete, and update the student information. Also, they can see how many students have failed or passed the class (Plus, the number of students).
- Now, it is time to create the objects that will be coming from the database. So, here are the list of the column name and data types that I have used for this application:
  - Std\_ID → smallint
  - Std\_No → char(4)

- Std\_name → varchar(15)
  - Std\_surname → varchar(20)
  - Std\_Ex1 → tinyint
  - Std\_Ex2 → tinyint
  - Std\_Ex3 → tinyint
  - Std\_Avg → decimal(18,2)
  - Std\_Case → bit
- 
- Please do not forget to change the Identity Specification to the “yes” when you define the Std\_ID column, so that it can automatically update the ID number when you add students to the system (Not Std\_No!!).
  - Once we save the table above, we can add couple of the student as an example. To do that, you need to right click on the table, and then click on the edit top 200.. section.
  - For now, we are good with SQL server. Now, it is time to create an project with Microsoft Visual Studio (Not VS Code)!!.
  - After creating a project by using C# Form, we need to decide how many forms we do need to create this app properly.
  - The following pictures are screenshots of the Forms that we will create:



**Picture1: The  
main login form**

Teacher\_Details

**New Student**

Student NO:

Student Name:

Student Surname:

ADD

DELETE

**Exam Grades**

Exam 1:

Exam 2:

Exam 3:

UPDATE

**Class Average**

Class Average: 00

Passed Students: 00

Failed Students: 00

Total Students: 00

**Exam Grades**

	std_id	std_no	std_name	std_surnan	std_exam1	std_exam2	std_exam3	std_avrg	std_condtn
*									<input type="checkbox"/>

**Picture2: The teacher details form.**

Stdnt\_Details

Student Name: NULL

Student Number: 0000

Exam 1: 00

Exam 2: 00

Exam 3: 00

Average: 00

Case: 00

**Picture3: The student details form.**

- Now, let's analyze each form's tool requirements:
  - **Picture1: The main login form:**
    - 1 label, 1 button and 1 maskedTextbox.
  - **Picture2: The teacher details form.**
    - 4 groupBoxes, 10 labels, 7 buttons, 1 DataGridView.
  - **Picture3: The student details form.**
    - 14 labels.

For the rest of the code behind, please visit:

[https://github.com/onurtotos/Student Grade Registration](https://github.com/onurtotos/Student_Grade_Registration).

Please let me know if you have any questions.

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