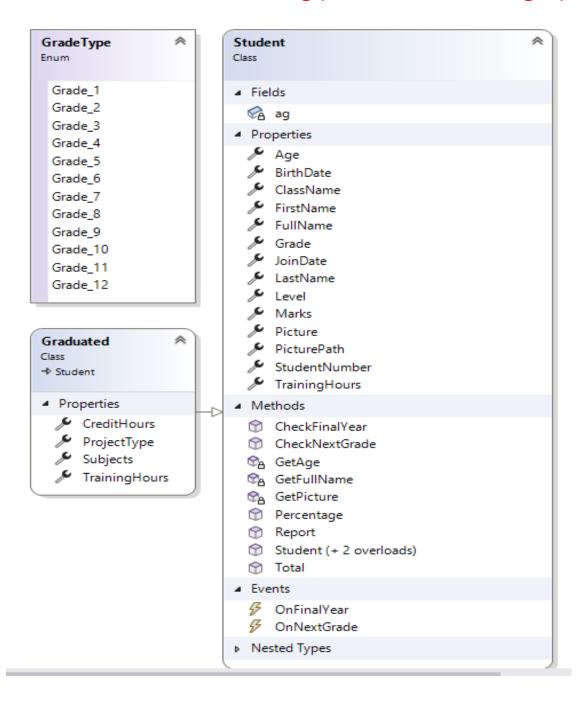
Task Description

Create Classes As Following (Please see all 6 Pages)



1- Create GradeType Enum As shown

2- Create Student Class With:

- Class Constructors: 3 Overloads

- o default
- with first & Last name
- with first & Last And BirthDate

- Properties

- FullName & Age Properties are ReadONLY
- Grade Property Based on GradeType Enum
- Marks Proprety is a Double[]
- Picture Property is a Byte[]
- o JoinDate Must be Over BirthDate by 6 years

- Private Methods:

- GetPicture() → Render picture Bytes
- GetFullName()--> Concatenate First & Last name
- GetAge() --> calculate Age As Integer

- Public Methods

- Total() ---> Sum Marks Array
- Percentage()--> Divide Total()/Marks Length *100
- Report() --> Show student Full name With Grade Level And Join Date And Age (See User Interface Pic)

NOTE: Please Mark All Public Methods as virtual

- Event Raise Methods:

- CheckFinalYear() --> when Grade Property value = Grade_12
- CheckGrade() -->When Percentage is over .5

- Events With Delegates:

- OnFinalYear
- OnNextGrad

3- Create Graduated Class Inherits from Students

Add the following new Properties:

CreaditHourse

ProjectType

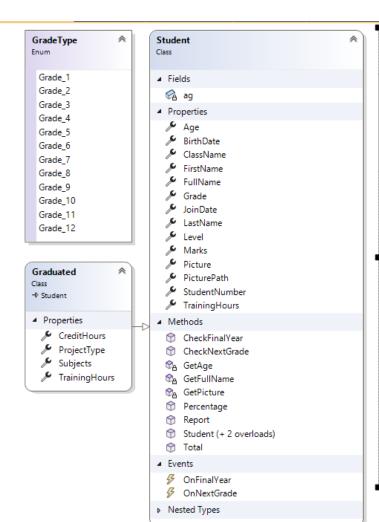
override:

JoinDate Property --> Must be Over Bith by 18 year

Training Hours Property --> Must Start from 100

Report() Method

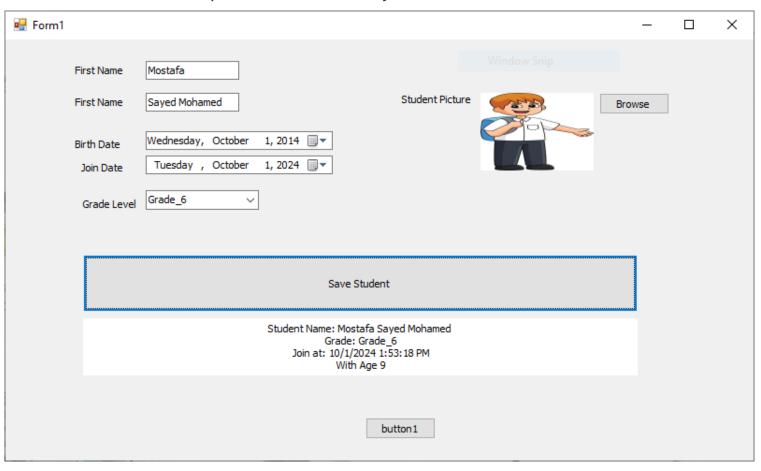
Classes Diagram



1- Create GradeType Enum As shown 2- Create Student Class With: Class Constructors: 3 Overloads default with first & Last name with first & Last And BirthDate -FullName & Age Properties are ReadONLY -Grade Property Based on GradeType Enum -Marks Proprety is a Double[] -Picture Property is a Byte]] -JoinDate Must be Over BirthDate by 6 years *Private Methods: GetPicture() GetFullName()--> Concat First & Last name GetAge() --> calculate Age As Integer *Public Methods Total() ---> Sum Marks Array Percentage()--> Divide Total()/Marks Length *100 Report() --> Show student Full name With Grade Level And Join Date And Age (See Interface Pic) NOTE: Please Mark All Public Methods as virtual Event Raise Methods: CheckFinalYear() --> when Grade Property value = Grade_12 CheckGrade() --> When Percentage is over .5 Events: OnFinalYear OnNextGrad 3- Create Graduated Class Inherits from Students JoinDate Property --> Must be Over Bith by 18 year Training Hours Propert --> Must Start from 100 Report() Method 4- Create User Interface to Implement Student Object As show in Picture

User Interface

4- Create User Interface to Implement Student Object As show in Picture



5- Using EntityFrameWork Package Create a database using previous 2 Classes (Students & Graduated)

- Use Program Interface to Add Student to database table
- Use Program Interface to Add Graduated to Database table

Best Wishes & Good Luck