**Visual Programming – C# - Fall 2019**

**Term Project**

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**General Instructions:**

1. The project can be done in groups ranging from 1 to 3 maximum in each group
2. Every group member should contribute to the project and should be able to show his/her work and answer any question about any part of the project. Grade depends on effort and contribution
3. Any violation to PSUT ethics code will have a severe impact.

**Submission**

Submit to e-learning: (one submission per group).

1. a runnable project (solution) compressed file of the complete project directory by due date
2. a short report with project’s overview, screen shots and code snippets

**Main Requirements:**

1. Develop and deliver a Windows Forms project that satisfies the following requirements:
   1. You can choose any information system to build your project.

Examples: registration system, banking system, student grades, etc. (The quality of the selected system will be graded).

* 1. Use as much as possible of the Windows Forms Controls we have learned in class. You should be able to use controls other than text boxes and labels. The project should contain controls such as: Menus, Tab, ListBox, ComboBox, ListView, MDI, DataGrid, etc and they will have more weight).
  2. Have a very well designed user interface (menus, tabs, colors, images, graphics etc). Well designed forms/application will get more grades.

1. Connect to any kind of database (Options: SQLite, MS Access, MySql, Oracle, etc) and perform the following operations:
   1. Insert a record taking values from textboxes or other controls in a form
   2. Delete a record taking the condition parameter from form control
   3. Modify a record taking the condition parameter from form control
   4. Select a group of records from database table using a condition taking its arguments from form control.
   5. Display the output in a form control such as textbox, rich textbox, data grid view or MessageBox
2. Add a class to your project to deal with objects equivalent to records and perform the following operations:
   1. Create an object
   2. Change a property of the object
   3. Display a property
3. Add the capability to import from and export to files
   1. Add a button to read data from a file line by line and insert it into a table
   2. Add a button to write data from a table/record to a text file
4. Your application should have resilience against errors ( use exception handling)
5. Your code should be readable and well documented

**Good Luck**