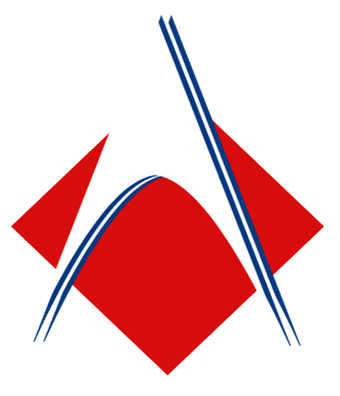
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Inter ACLC College Skills Competition



**SOFTWARE DEVELOPMENT**

College

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**INSTRUCTION:**

* Provide the programming skills in developing software/application using .NET and MS Access/ MS SQL/MySQL.
* The competitors will be given 4hrs to finish the tasks.
  + 9:00 am-1:00 pm
  + 1:00 pm for markings
* Competitors are not allowed to bring and use any wireless devices and network connectivity (e.g. smart watches, mobile phone, flash drives, wifi, etc.)

**DELIVERY OF FILE TASK**

* Create a folder on your Desktop called YY\_LASTNAME\_IACLCCSC\_COLLEGE (YY represents the number assigned to the competitor, LASTNAME for the last name of the competitor and IACLCCSC stand for Inter ACLC College Skills Competition). This folder must include the ff files:
  + Raw Database
  + The Project must produce an exe file

**DESCRIPTION OF THE TASK**

Task 1: Log in Form

* + - The program evaluates username and password and must have corresponding dialog boxes:
      * All fields are required
      * Must have validations
    - The data must be retrieving from the database.

Task 2: Main Menu

* + - The program must have list of all students enrolled.
    - Must have a Search Bar.
    - The Administrator has the access of all features over the system.
    - The User can only access the ff:
      * Viewing
      * Searching
      * Printing

Task 3: Add New Record

* + - All fields are required.
    - All the input data must save to the database used.
    - Must be display in the Data Grid View.
    - Must have validations in inputting data:
      * Corresponding dialog boxes or notifications whenever misses out to fill in text boxes.
      * Automated calculation of Age from Date of Birth given. (The age must accept only 16 years old and above.)
      * The Course and Year Level must come from the data base.
      * Can browse images from a local disk.
      * Contact number must have format to accept (e.g. 926-2483-289)
      * E-mail must accept only required the ff:
        + letters
        + numbers
        + special characters (- , \_ )

Task 4: Edit Record

* + - All fields are required.
    - Only Admin can manipulate the data.
    - All fields can manage by the Adminitrator.
    - All the input data must save to the database used.
    - Must be display in the Data Grid View.

Task 5: Delete Record

* + - Must have corresponding notifications.
    - The selected row from the Data Grid View will only be deleted.

Task 6: Add New User Account

* + - All fields are required.
    - All the input data must save to the database used.
    - Password validations:
      * At least 1 capital letter
      * At least 1 small letter
      * At least 1 numeric character
      * must accept only the following special characters:
        + ~!@#$%.

Task 7: Report

* + - Must generate report based on the selected options. (by Course, Year Level, Gender, and all of the records)
    - Use Crystal Report or Report Viewer.

**TARGET AUDIENCE**

* An enrolled College student who’s taking BSIT, ACT, BSCS.

**DELIVERABLES**

* Folders as specified in “Instruction to the Competitor”. (Only files from these folders will be assessed. Refer to Delivery of files task.)

**Task 1: Log in Form (10pts)**

* + - The program evaluates username and password and must have corresponding dialog boxes:
      * All fields are required
      * Must have validations
    - The data must be retrieving from the database.

**Task 2: Main Menu (15pts)**

* + - The program must have list of all students enrolled.
    - Must have a Search Bar.
    - The Administrator has the access of all features over the system.
    - The User can only access the following:
      * Viewing
      * Searching
      * Printing

**Task 3: Add New Record (20pts)**

* + - All fields are required.
    - All the input data must save to the database used.
    - Must be display in the Data Grid View.
    - Must have validations in inputting data:
      * Corresponding dialog boxes or notifications whenever misses out to fill in text boxes.
      * Automated calculation of Age from Date of Birth given. (The age must accept only 16 years old and above.)
      * The Course and Year Level must come from the data base.
      * Can browse images from a local disk.
      * Contact number must have format to accept (e.g. 926-2483-289)
      * E-mail must accept only required the ff:
        + letters
        + numbers
        + special characters (- , \_ )

**Task 4: Edit Record (10pts)**

* + - All fields are required.
    - Only Admin can manipulate the data.
    - All fields can manage by the Administrator.
    - All the input data must save to the database used.
    - Must be display in the Data Grid View.

**Task 5: Delete Record (10pts)**

* + - Must have corresponding notifications.
    - The selected row from the Data Grid View will only be deleted.

**Task 6: Add New User Account (15pts)**

* + - All fields are required.
    - All the input data must save to the database used.
    - Password validations:
      * At least 1 capital letter
      * At least 1 small letter
      * At least 1 numeric character
      * must accept only the following special characters:
        + ~!@#$%.

**Task 7: Report (20pts)**

* + - Must generate report based on the selected options. (by Course, Year Level, Gender, and all of the records)
    - Use Crystal Report or Report Viewer.

TASK 1 [10pts]

TASK 2 [15pts]

TASK 3 [20pts]

TASK 4 [10pts]

TASK 5 [10pts]

TASK 6 [15pts]

TASK 7 [20pts]

100pts