

## GROUP PROJECT PROGRAMMING I (STIA1113)

Form a group of **TWO** students for the project. Your group is required to develop **ONE** of the following information management system in Java programming language:

1. Computer Shop Management System
2. Flight Ticket Management System
3. Restaurant Management System
4. Book Store Management System
5. Pet Hotel Management System
6. Gym Management System
7. Telco Management System
8. Sunway Lagoon Ticketing System
9. Minimarket Management System
10. Tourist Management System (used by travel agent)

Only two groups can have same topic at maximum (Post on WhatsApp to book your topic, based on first come first served). Your project should fulfill the following requirements:

- Prompt user to enter an input: interactive program
- Use selection statement
- Use repetition statement
- Use method
- Use array to keep information
- Has view function (to view the content of array).
- Has **at least two (2)** additional functions (add, update, delete or search the content of array). Extra marks will be given if you can perform all the **four** functions.
- Has menu and submenu (navigation)
- Include **calculations** in your system. Think about calculation that is suitable to your project topic, be creative.
- Include comments to make your code understandable by the readers.

**Sample Main Menu for Student Management System (this is just a sample, you can design your menu creatively):**

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                                MAIN MENU

1. ADD A RECORD
2. EDIT A RECORD
3. DELETE A RECORD
4. SEARCH FOR A RECORD
5. VIEW RECORD
6. EXIT

PLEASE CHOOSE ONE OF THE ABOVE OPTIONS: ____

```

For instance, when the user choose option 1 from the Main Menu, that is, "ADD A RECORD, the following menu should be shown:

```

MENU - ADD A RECORD

ENTER STUDENT ID: _____
ENTER STUDENT NAME: _____
ENTER STUDENT EMAIL: _____
ENTER STUDENT AGE: _____

RECORD SUCCESSFULLY ADDED

DO YOU WANT TO ADD ANOTHER RECORD (Y/N): ____

```

The user will enter the student details, If the user selects Yes (Y), he should be able to add another record else if he selects No (N), he/she will be redirected to the Main Menu.

1. When the user selects option 2 from the Main Menu, another menu will appear where the user can edit any record of the student, For example the user can update the Student Email or Student Age of a given Student ID.
2. When the user selects option 3 from the Main Menu, another menu will appear where the user can delete a specific student based of his/her Student ID.
3. When the user selects option 4 from the Main Menu, another menu will appear where the user can search a particular student based of his/her Student ID or Student Name. Once the record is found, it will display the complete details of that student.
4. When the user selects option 5 from the Main Menu, another menu will appear where the user can view the full details all students.
5. The exit option will terminate the whole program.

**The project will be assessed based on:**

1. **The program:** follow the above requirements. Both of you should do it together, not one of you do the code and another one does the report. Both should know each line of code and understand it well.
2. **The report produced:** must contain the following-
  - Introduction about program (elaborate what is the program, what is the problem with manual way of doing things and why you need a system, what are the functions, who are the users, etc).
  - The code
  - The sample run: provide manual for using your systemThe report should be submitted online, in a PDF form.
3. **The presentation:** will be done online
  - Formal presentation by the team, both members need to present. Make sure it is a **FORMAL** presentation in **English** and decide from beginning who is going to present about what.
  - Time given is 15-20 minutes.
  - Introduce the program (you may use slide for presenting the introduction, it is up to your own creativity), then run the program (demo each functions that you have) and present the code as well in JGRASP.
  - At the end, both students will be asked questions (make sure each of you understand each line of code).
4. **Team member assessment**
  - 5% of your marks will be given by your team member by using the team member assessment form.

**ALL THE BEST!**