

CS243 Computer Organization and Architecture  
1<sup>st</sup> Semester SY 2024-2025  
Teacher: Roden J. Ugang  
INDIVIDUAL LAB FINAL PROJECT

1. Choose a system from the list below and create a simple program using Assembly Language:
  - a. Parking Slot System
  - b. Grocery Items Inventory System
  - c. Library System
  - d. Online Food Order System
  - e. Other system that you can think of (but inform first Sir Ugang)

2. Your system must have CRUD capabilities during program run-time:
  - a. Create new record
  - b. Read (view) existing record
  - c. Update existing record
  - d. Delete existing record

No need to save records permanently. Records will exist only during run time.

3. Additional features:
  - a. Register new customer
  - b. Log in customer

4. Design an opening screen that displays every time the program is run. The opening screen must display the following information below:
  - a. The name of your system (Example: CITU Car Parking Slot Management System)
  - b. Your name as the programmer
  - c. Date that program was written.

5. Create a separate user interface screen for each of the following operations. Use "clear screen" function to clear the screen and display the chosen operation user interface.
  - a. Opening Screen
  - b. Register new customer
  - c. Log in customer
  - d. Main Menu
  - e. Create new record
  - f. Update existing record
  - g. Delete existing record
6. Include the following comments at the beginning of your source code:
  - a. The name of your system (Example: CITU Car Parking Slot Management System)
  - b. Brief description of your system (including its purpose and capabilities).
  - c. Your name as the programmer
  - d. Date that program was written.
7. You may look for sample user interfaces on the internet for inspiration and reference.
8. Deadline (during onsite/f2f Lab Final Project Checking):
  - a. Sections F3 and F2 - Thursday, December 5, 2024
  - b. Sections F4 and F1 - Friday, December 6, 2024
9. Attach and submit your .ASM source code in the Lab Final Project assignment posting.

=====NOTHING FOLLOWS=====