

ABC Apartments have 20 units. People living in these units need to do their laundry but there is only one laundry machine, so each unit has to sign up for a time slot to have access to the laundry machine.

Within a 24 hour period, there are 12 time slots each 2 hours long. The day starts at midnight, so the first time slot is between 12AM and 2AM. The next time slot is from 2AM to 4AM and so on. The tenants are allowed to sign up for no more than one time slot per week.

They can only sign up for a week at a time with the week starting on a Monday and ending on a Sunday. A new week's signup becomes available on the Sunday midnight before the Monday of the new week.

Each unit must sign in with a user id and password and have the ability to view the weekly laundry schedule. Once signed in, the system should present the user with all the available time slots for the week from which he/she can select only one.

Those time slots that have been already selected by other users should not be available for selection. After the user selects a time slot, the system should confirm the selection for accuracy with the user and record it for him/her for that week.

If the user has already selected a time slot, instead of the available time slots, the system should display the date/day/time of the selected time slot for that week.

Each Sunday at midnight a new week's time slots become available for the residents to sign up.

Using System Development Life Cycle design and design a scheduling system that implements the above business rules.

The project will be accomplished in phases:

- I. (10) Planning: Assign tasks to resources and members. Create Group GITHUB account  
**Deliverable:**  
**GANTT chart**
- II. (20) Systems Analysis: Determine the needs of the users, interview stakeholders. Create a Data Flow Diagram of the processes.  
**Deliverable:**  
**Entity-Relationship Diagram**  
**Data Flow Diagram (Context, Level 0)**
- III. (20) System Design: Detailed design of the system. Create prototype of input/output interfaces, List data items to be used in the system.  
**Deliverable:**  
**User Interface**  
**Database dictionary**
- IV. (20) System Development: Creation of programs and any other elements needed for the project. The project will use XAMPP stack as its development environment.  
**Deliverable:**  
**Database Schema**
- V. (10) Testing: Creation of sample dataset, to test the system.  
**Deliverable:**  
**Test data**
- VI. (20) Delivery: Complete testing and post the system on your Group GITHUB account.  
**Deliverable:**  
**Source code with comments, database schema.**

## Project Milestone Deadlines: FALL 2022

| Date   | Activity  |
|--------|---|
| 13-Oct | Project Assigned  |
| 18-Oct | Groups Established  |
| 21-Oct | Planning to be posted on Blackboard                       |
| 10-Nov | System Analysis Documents to be posted on Blackboard      |
| 22-Nov | System Design Documents to be posted on Blackboard        |
| 13-Dec | Project Delivery (Test Data/Code/Schema posted to Github) |

## Group Assignments

| GROUP | LAST NAME       | FIRST NAME      |
|-------|-----------------|-----------------|
| A     | ABDOUL          | DIALLO          |
| A     | FINNEY-TONY     | JEAN            |
| A     | LUKA            | RAZMADZE        |
| B     | BAR             | KROITORO        |
| B     | MAY             | RAMATI          |
| B     | ROBERT          | WESSON          |
| C     | GABRIEL ANTONIO | DE JESUS GROSS  |
| C     | NOOR            | HABIB           |
| C     | JEREMY          | NOEL            |
| D     | GABRIEL         | AYALA           |
| D     | MARCUS          | BENOIT          |
| D     | ROLAND          | OKILI           |
| E     | WEIXIAN         | LIANG           |
| E     | YIN             | LIN             |
| E     | CRISTIAN        | YEPEZ FEBRES    |
| F     | NELSON          | ACERO           |
| F     | NELSON          | ALMONTE PAULINO |
| F     | BAHAALDEEN      | QASIM           |
| G     | JADE            | COMPTON         |
| G     | JOSE            | MELGAR          |
| G     | MD HASIB        | UDDIN           |