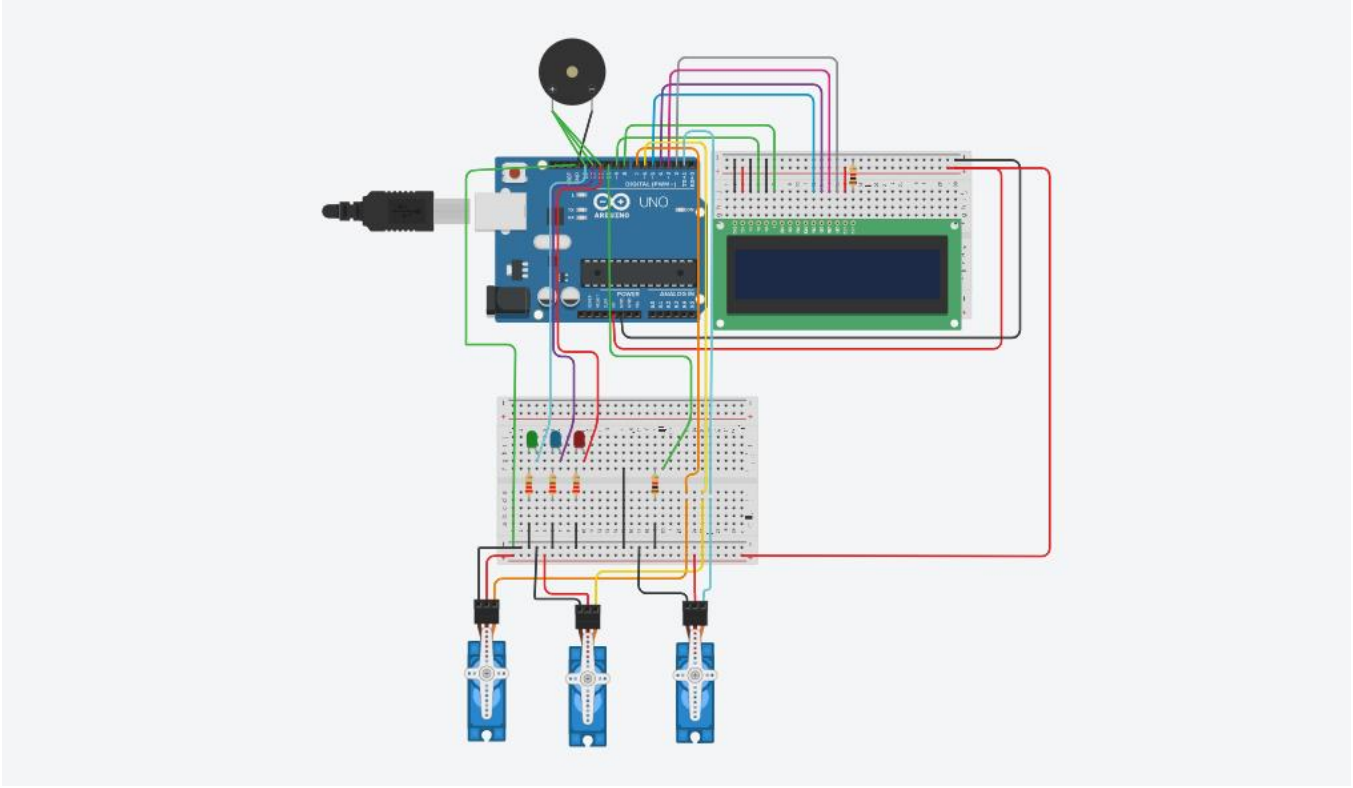
**NALAIYA THIRAN**

**PROJECT DEVELOPMENT PHASE**

**SPRINT 3**

## HARDWARE STRUCTURE:



## CODE:

```
#include<LiquidCrystal.h>
#include <Servo.h>
LiquidCrystal lcd(9, 8, 5, 4, 3, 2);
Servo servo_7;
Servo servo_6;
```

```
Servo servo_1;
const int buzzer = 10; //buzzer to Arduino pin 10
void setup()
{
  lcd.begin(16,2); //Lcd screen of 16*2 dimension
  pinMode(buzzer,OUTPUT);
  pinMode(11, OUTPUT);
  pinMode(12, OUTPUT);
  pinMode(13, OUTPUT);
  servo_7.attach(7);
  servo_6.attach(6);
  servo_1.attach(1);
}
void loop()
{
  servo_7.write(0);
  servo_6.write(0);
  servo_1.write(0);
  lcd.setCursor(0,0);
  lcd.print("MEDICINE");
  lcd.setCursor(2,1);
  lcd.print("REMAINDER");
  delay(5000);
  lcd.clear();
  delay(1000); // Wait for 1000 millisecond(s)
  lcd.print("NextCycle = 8AM");
```

```
delay(5000); // Wait for 5000 millisecond(s)
  lcd.clear();
// FIRST CYCLE
digitalWrite(13, HIGH); //Green Light On
lcd.setCursor(0,0);
lcd.print("8:00 AM");
lcd.setCursor(2,1);
lcd.print("MORNING MED");
servo_7.write(90);
servo_6.write(0);
servo_1.write(0);
tone(buzzer, 500); // Send 1KHz sound signal...
delay(1000);        // ...for 1 sec
noTone(buzzer);     // Stop sound...
delay(1000);        // ...for 1sec
tone(buzzer, 500); // Send 1KHz sound signal...
delay(1000);        // ...for 1 sec
noTone(buzzer);     // Stop sound...
digitalWrite(13, LOW); //Green Light Off
lcd.clear();
servo_7.write(0);
servo_6.write(0);
servo_1.write(0);
lcd.print("NextCycle = 5PM");
delay(5000); // Wait for 5000 millisecond(s)
lcd.clear();
```

```
// SECOND CYCLE
digitalWrite(12, HIGH); //Blue Light On
lcd.setCursor(0,0);
lcd.print("5:00 PM");
lcd.setCursor(2,1);
lcd.print("AFTERNOON MED");
servo_7.write(0);   //TEST
servo_6.write(90);
servo_1.write(0);
tone(buzzer, 500); // Send 1KHz sound signal...
delay(1000);        // ...for 1 sec
noTone(buzzer);     // Stop sound...
delay(1000);        // ...for 1sec
tone(buzzer, 500); // Send 1KHz sound signal...
delay(1000);        // ...for 1 sec
noTone(buzzer);     // Stop sound...
digitalWrite(12, LOW); //Blue Light Off
lcd.clear();
servo_7.write(0);
servo_6.write(0);
servo_1.write(0);
lcd.print("NextCycle = 10PM");
delay(5000); // Wait for 5000 millisecond(s)
lcd.clear();
```

```
  // THIRD CYCLE
  digitalWrite(11, HIGH); //Red Light On
  lcd.setCursor(0,0);
  lcd.print("10:00 PM");
  lcd.setCursor(2,1);
  lcd.print("NIGHT MED");
  servo_7.write(0);   //TEST
  servo_6.write(0);
  servo_1.write(90);
  tone(buzzer, 500); // Send 1KHz sound signal...
  delay(1000);        // ...for 1 sec
  noTone(buzzer);     // Stop sound...
  delay(1000);        // ...for 1sec
  tone(buzzer, 500); // Send 1KHz sound signal...
  delay(1000);        // ...for 1 sec
  noTone(buzzer);     // Stop sound...
  digitalWrite(11, LOW); //Red Light Off
  lcd.clear();
  servo_7.write(0);
  servo_6.write(0);
  servo_1.write(0);
  delay(5000); // Wait for 5000 millisecond(s)
}
```