

A decorative graphic on the left side of the slide. It consists of a blue parallelogram and a light green parallelogram, both tilted at an angle. The blue shape is in the foreground, and the green shape is partially behind it. The background of the entire slide is a dark navy blue with subtle, lighter blue geometric patterns.

# Digital Clock - Need of the Hour



# What do we intend to do?

We intend on providing a smooth and easy to use interface for a digital clock to the users.

It is a commodity everyone uses in their daily lives and we aim at providing everyone with a clock which shows as well as saves time of the users.

There are different time zones, time formats collaborated in the application providing users with a variety of choices and allowing him to expand his horizons.

There is a special alarm feature built which sets the alarm and has a different ringtone for every separate day to break away from the monotonicity of the same song everyday.

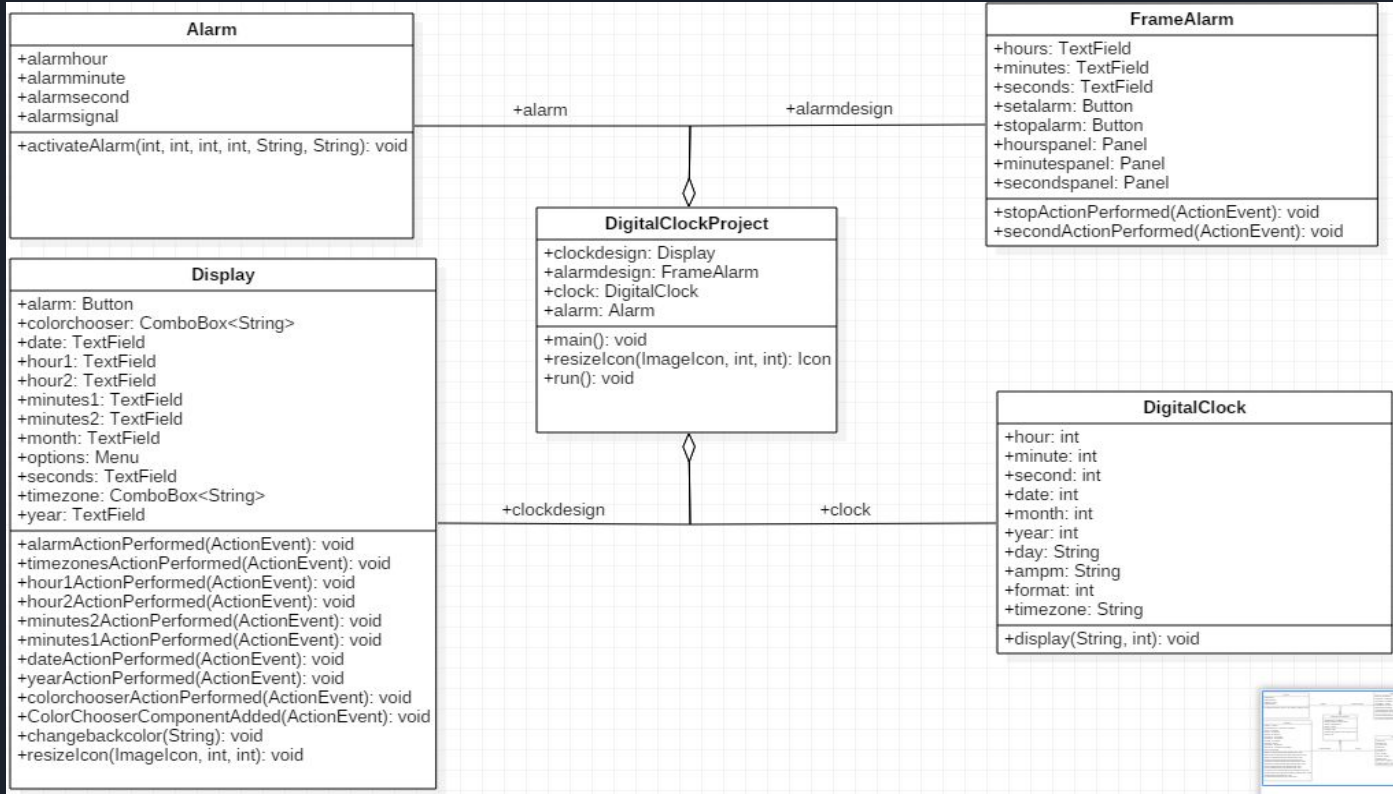


Languages Used :

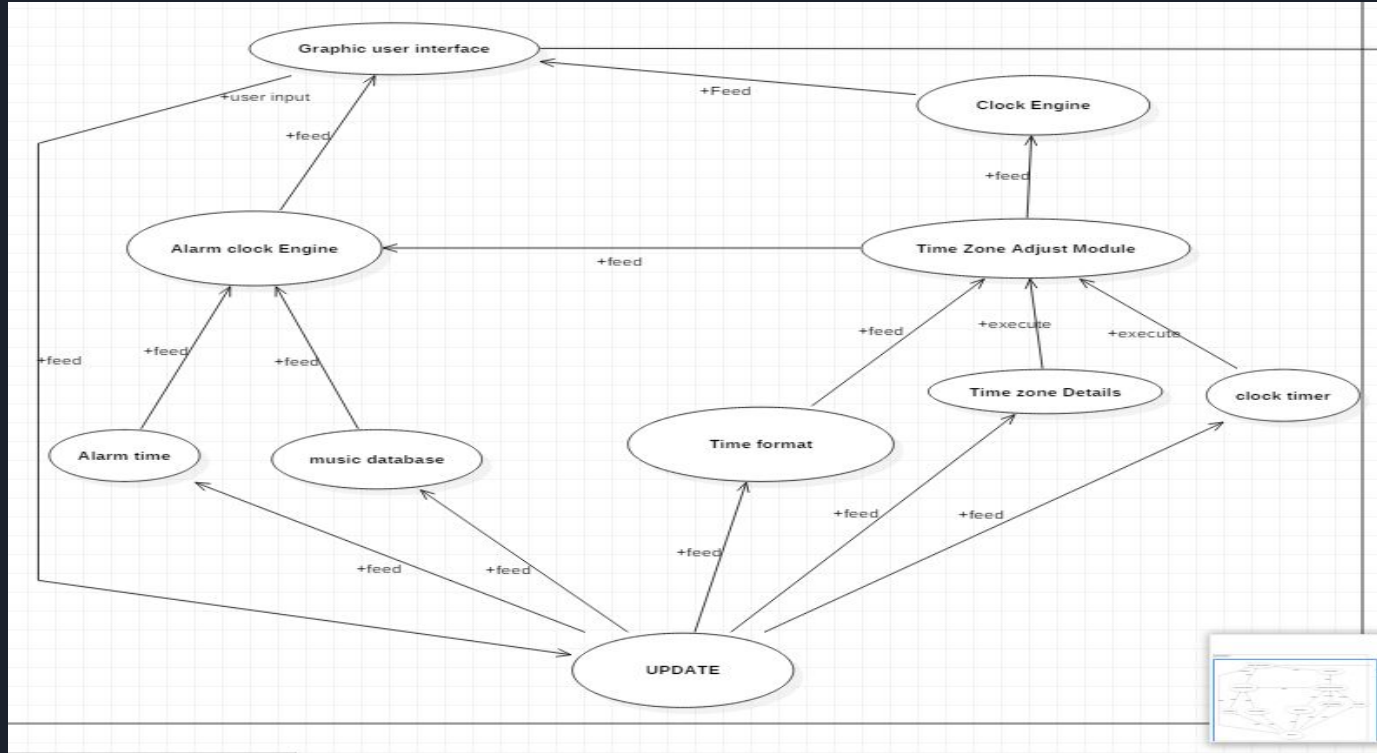
Java

Swing

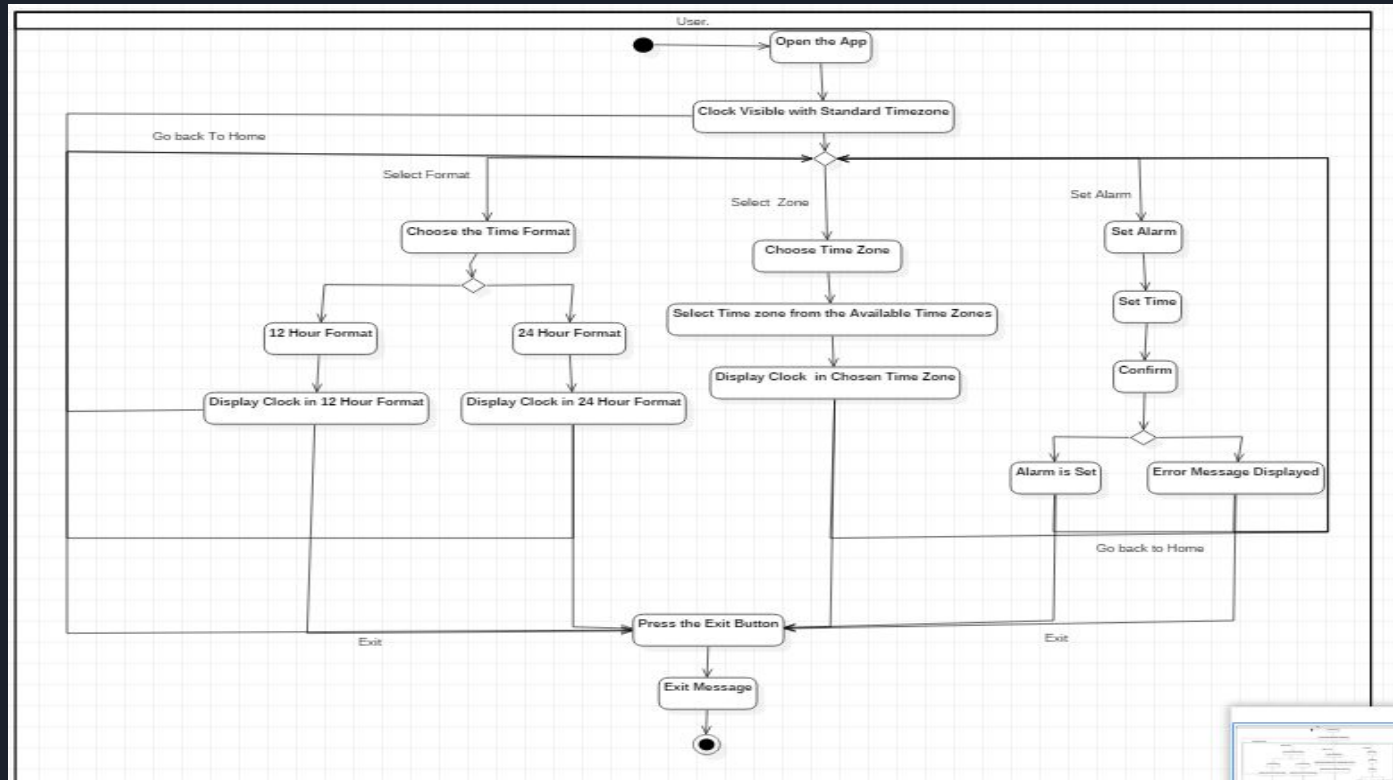
# UML Class Diagram



# Use Case Diagram



# Activity Diagram





## CRC Card - 1

DigitalClockProject	
Acts as a model to support decoupled structure of the project.	Timer Task
Works as bridge between frontend view and and backend models.	
Starts functioning as soon as project build starts using run function implementation.	
Uses ActionListener as EventListener for listening to click events.	



## CRC Card - 2

Digital Clock	
Has function to set all time related attributes	DigitalClockProject
Uses the current timezone and time format to set time	
Sets all clock attributes when the function display is called	





## CRC Card - 3

Alarm	
Is used to store any and all alarms set by the user	DigitalClockProject
When the activateAlarm() function is called, the current time is compared with all the set alarm times	
In case the current time is the same as an alarm time, an audio clip is played based on the day of the week	



## CRC Card - 4

FrameAlarm	
Frame to set alarm.	DigitalClockProject
It appears as a dialogue box when user wants to set alarm .	Display
The time format will be same as set in main clock.	



## CRC Card - 5

Display	
This is main Frame display of clock.	DigitalClockProject
It will display time in desirable format (12/24 hour format).	
It will display date in day/date/year format.	
It will provide options for changing time zone, background colour, a button for setting alarm.	

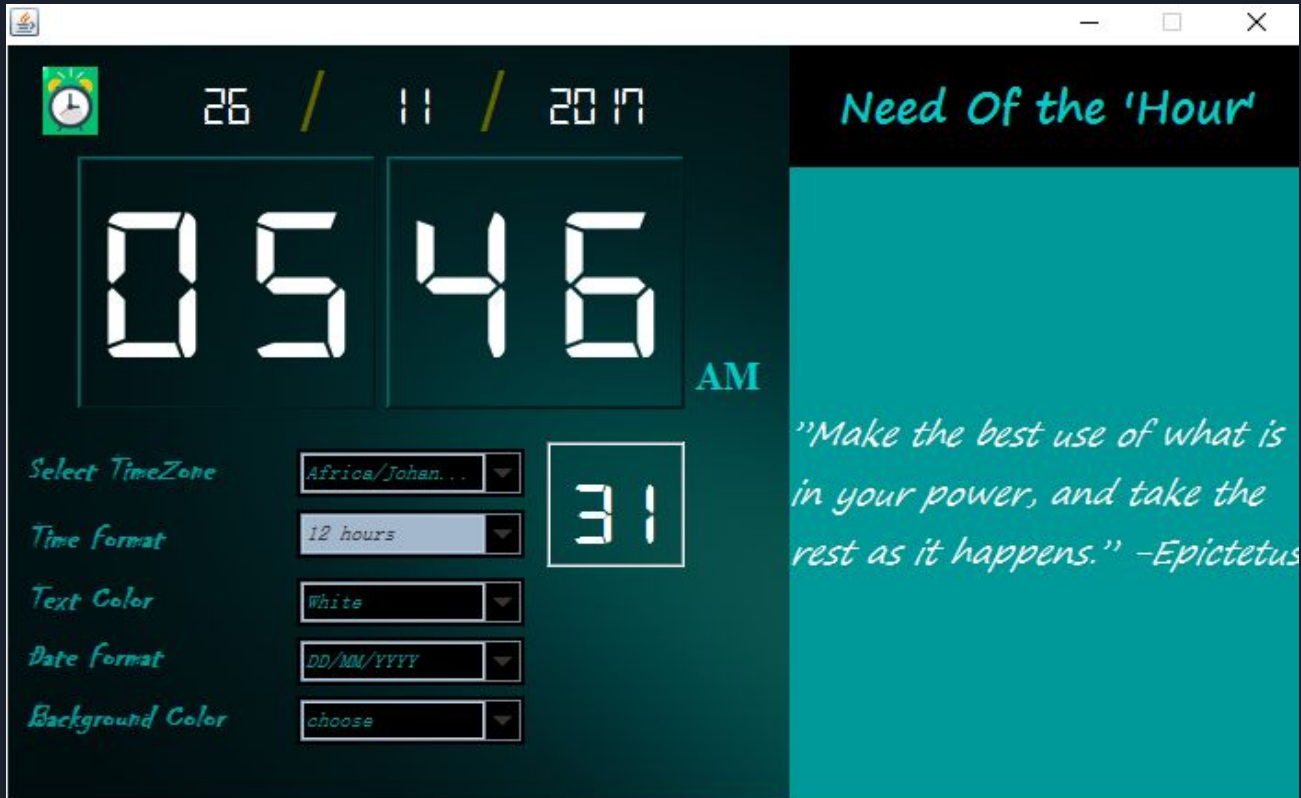
# Digital Clock - The Clock



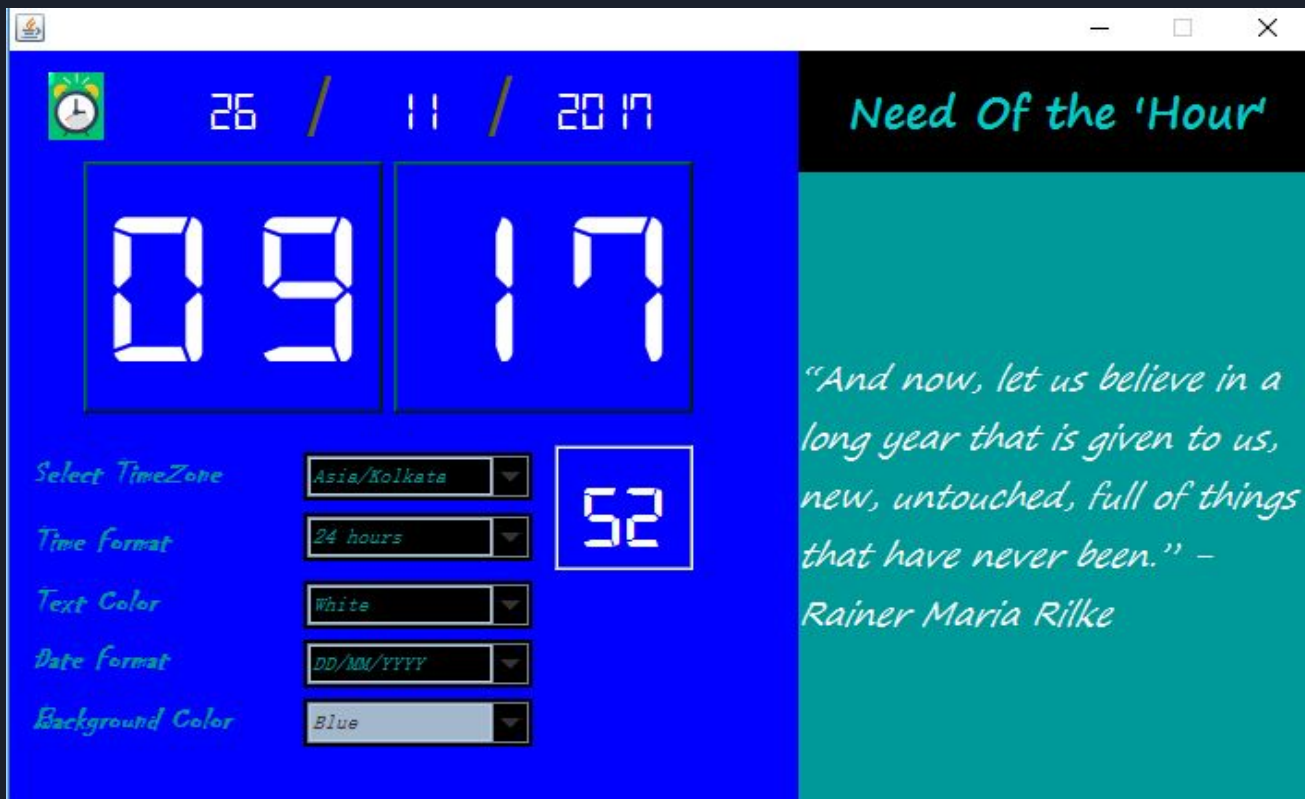
# Digital Clock - Changing the TimeZone



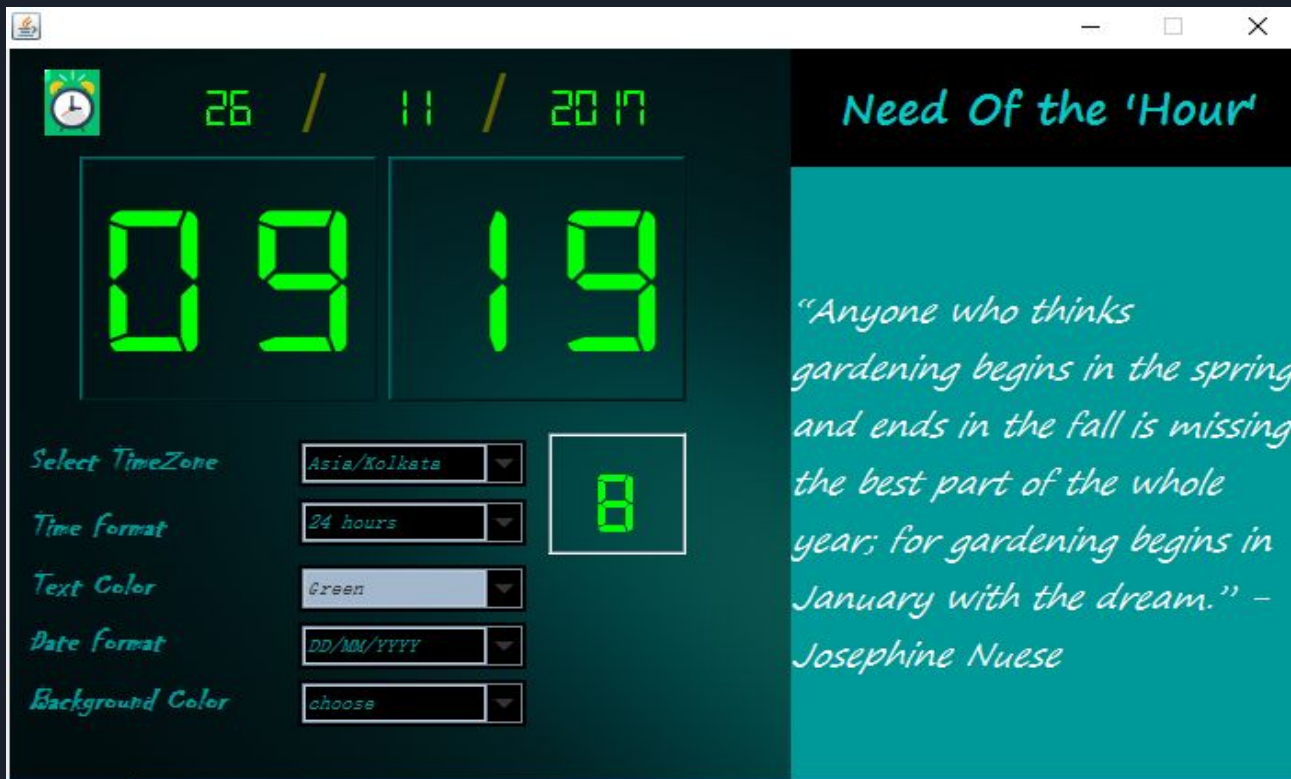
# Digital Clock - Changing the Time Format



# Digital Clock - Changing the Background Color



# Digital Clock - Changing the Text Color





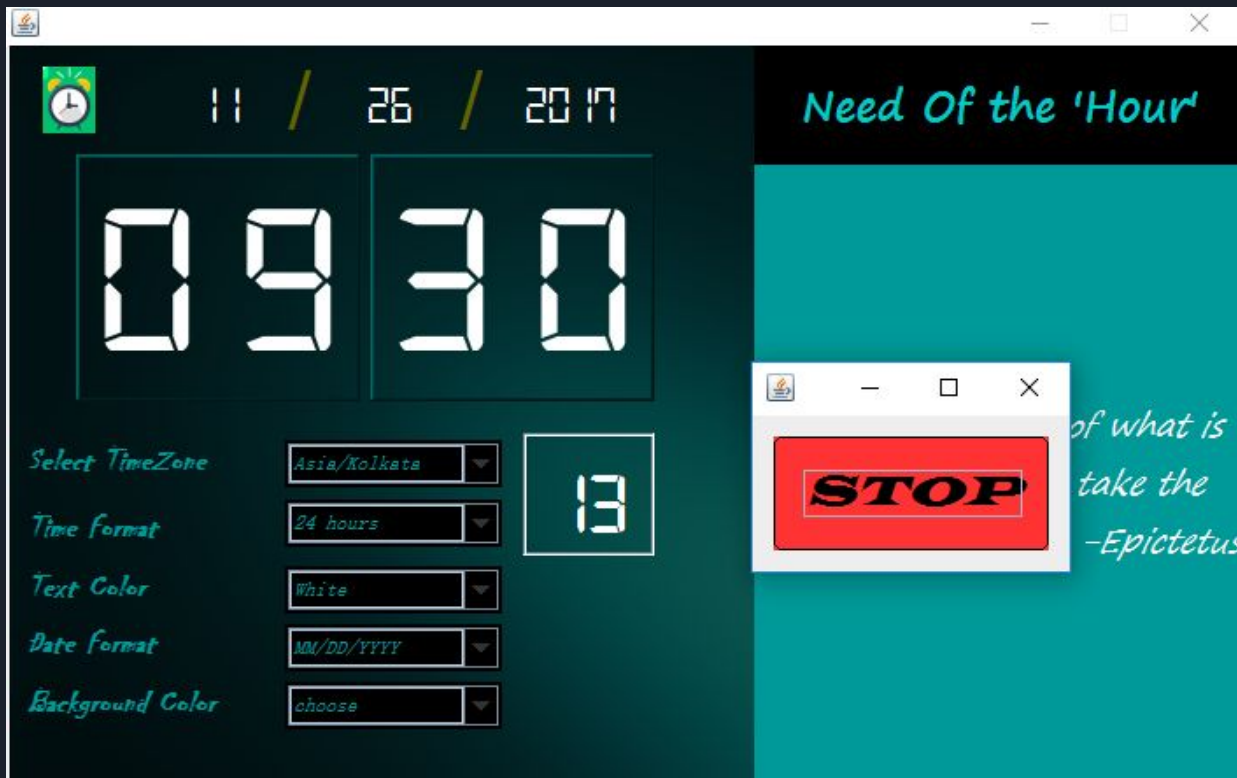
# Digital Clock - Changing the Date Format



# Digital Clock - Setting the Alarm



# Digital Clock - The Alarm Plays



# Digital Clock - The Quotation Show

Another special feature associated with the Digital Clock is the Quotation Feature. As shown in the picture on the right, we have a quotation that displays on the right of the clock and keeps updating every minute to give user a better experience





# Digital Clock - The Creators

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Thank You!