A countdown timer using python

- MUDISETTI MOUNIKA

Abstract

- A COUNTDOWN TIMER IS AN IDEAL WAY TO SET TARGETS TO COMPLETE TASKS EXAMPLE KEEPS A REMINDER FOR THE OVEN ETC. FOR LARGE-SCALE APPLICATIONS SUCH AS INDUSTRIES , COMPLEX TIMERS ARE USED , WHICH ARE CUSTOM-DESIGNED FOR VARIOUS PURPOSES SUCH AS TRIGGERING OR FLIPPING A SWITCH.
- THIS HAPPENS BECAUSE OF THE TIMER WHICH CALCULATES OUR IDLE TIME . SIMILARLY , AUTOMATIC LOGGING OUT OF WEBSITES, OTP EXPIRATION.

Existing system

- DURING THE CREATION OF THE COUNTDOWN TIMER USING PYTHON PROJECT, WE NEED ABOUT THE TKINTER MODULE , DATA TIME MODULE, TIME LIBRARY, WIN-SOUND MODULE AND WIN10TOAST MODULE .
- WE SAW HOW CAN WE MAKE A GUI WINDOWS , SET A TIMER CLOCK AND ALSO TO DISPLAY THE CURRENT TIME ON OUR WINDOW AND THE USE OF THE COUNTDOWN TIMER IN THE SYSTEM .

Disadvantages of existing system

- THE PROBLEM OF APPLYING THE IMPORTING THE REQUIRED LIBRARIES AND MODULES AND CREATING THE GUI WINDOW [LABLES, BUTTON AND ENTRY FILED]
- ANOTHER CHALLENGE IS THE KEY ESCROW PROBLEM IN DISPLAYING THE CURRENT TIME AND CREATING THE TIMER COUNT DOWN AND ITS FUNCTION .

Proposed system

- WE PROPOSE PLYER IS A LIBRARY THAT PROVIDES US WITH FEATURES TO ACCESS BLUETOOTH , WIFI BATTERY DETAILS , SEND EMAILS GPS AND SO ON.
- FIRST, TKINTER IMPORT MESSAGE BOX IT CAN CREATE MESSAGES BOXES FOR ERRORS TO DISPLAY INFORMATION ETC.
- SECOND, TKINTER IMPORT IS THE USE OF CREATING THE USER INTERFACE FOR THE APPLICATION .

Advantages of proposed system

- **COUNT DOWN TIMER IN PYTHON IS ONE MAIN ADVANTAGES OF CREATING A CUSTOM CLASS IS YOU CAN MANAGE ALL THE TIME IN A SINGLE LINE.**
- **TIME-RESISTANCE**
- **REMINDER APPLICATIONS**

System Requirements

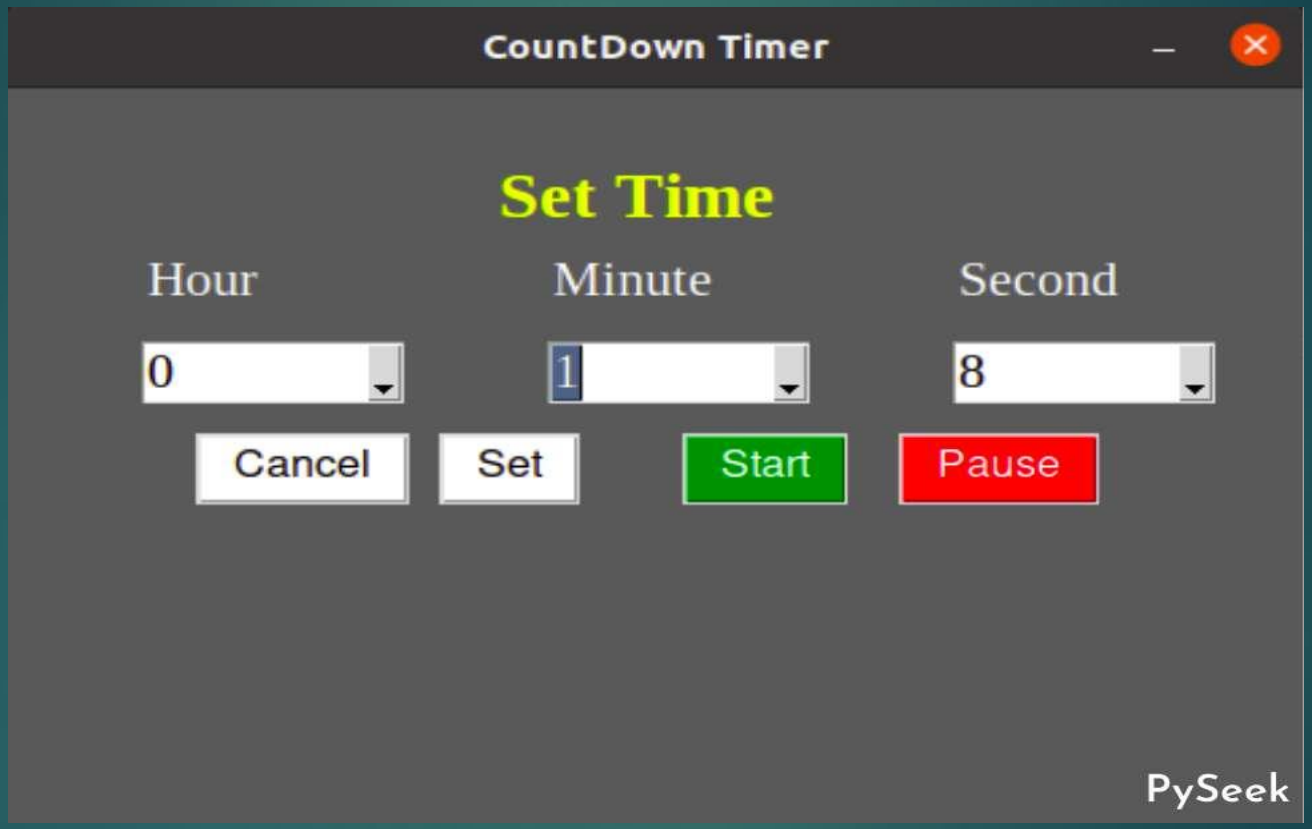
HARDWARE REQUIREMENTS

SYSTEM	:	DUAL CORE 2.4 GHZ.
HARD DISK	:	250 GB.
MONITOR	:	LCD
MOUSE	:	LOGITECH.
RAM	:	2 GB

Software Requirements

Operating system	:	Windows XP/7.
Coding Language	:	PYTHON
Database	:	MYSQL

System Architecture



Modules

There are four modules:

1. TIME MODULES
2. COUNTDOWN[]
3. DIVMOD[]
4. TIMEFORMAT
5. END='/R'
6. TIME.SLEEP[]

TIME MODULE

- THE VALUE IS SENT AS A PARAMETER ‘T’ TO THE USER-DEFINED FUNCTION COUNTDOWN[ ] ANY VARIABLE READ USING THE INPUT FUNCTION IS A STRING . SO CONVERT THIS PARAMETER TO ‘INT’ AS IT IS OF STRING TYPE.

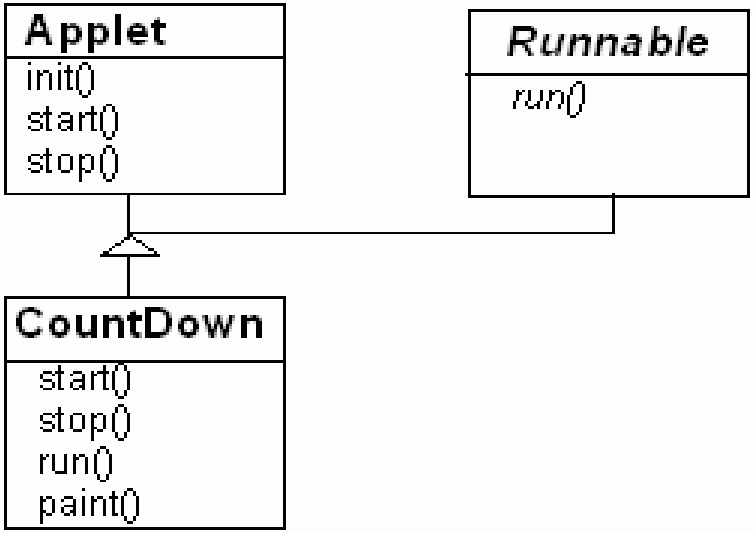
- IN THIS FUNCTION A WHILE LOOP UNTIL TIME BECOMES 0

COUNTDOWN MODULE

- IT ALLOWS THE USER TO INPUT THE LENTH OF THE COUNTDOWN IN SECONDS THEN THE USE OF DIVMOD[ ] TO CALCULATE THE NUMBER OF MINITUES AND SECONDS AND PRINT THE MINUTES AND SECONDS ON THE SCREEN USING THE VARIABLE TIMEFORMAT.
- AND BY USING END='/R' WE FOCUSE THE CURSOR TO GO BACK TO THE START OF THE SCREEN SO THAT THE NEXT LINE PRINTED WILL OVERWRITE THE PREVIOUS ONE.

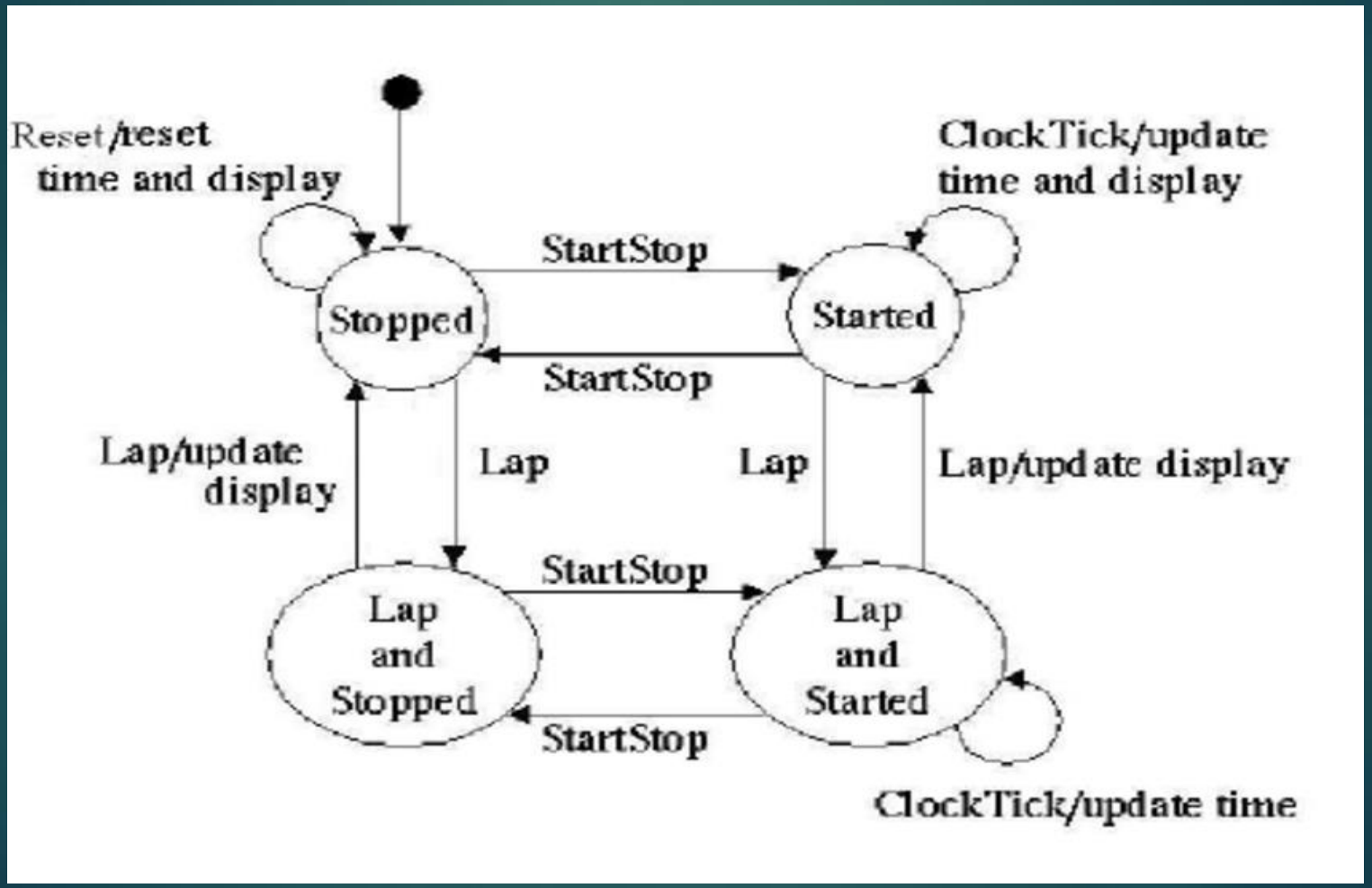
Class diagram

CountDown Timer - Class diagram



Runnable is an interface

State chart diagram



Thank you ☺..