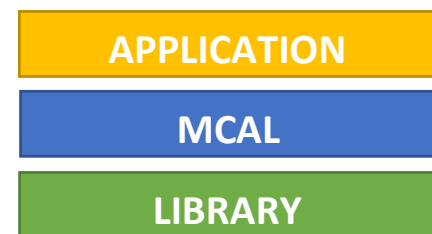


(LED Control)

- System Description: -
 - Create a function in the App layer that takes as an input from the user a specific ON time and OFF time in seconds, lights a LED for the given-ON time, and dim it for the given OFF time. This function implements implicitly the PWM module using Timer Overflow.
- System Design: -
 - Initialize Timer to get interrupt every user define time.
 - Use led toggle function in Timer ISR to control ON & OFF time
 - Take The Time from User as Macro.

- Layers: -
 - APPLICATION
 - MCAL
 - LIBRARY



- Modules & Drivers: -
 - GPIO Driver (MCAL).
 - Timer Driver (MCAL).
 - NVIC Driver (MCAL).
 - Reset and Clock Driver (MCAL).

- System Flow Chart:

