

ON-demand Traffic light control

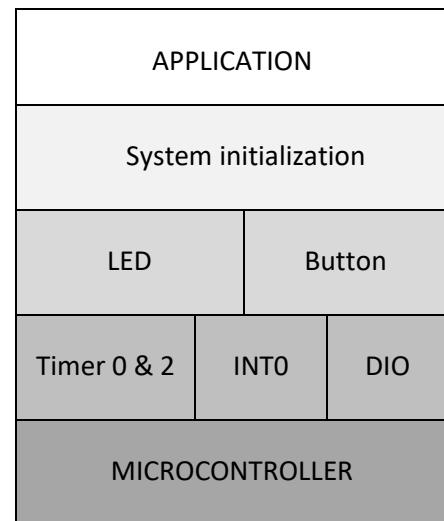
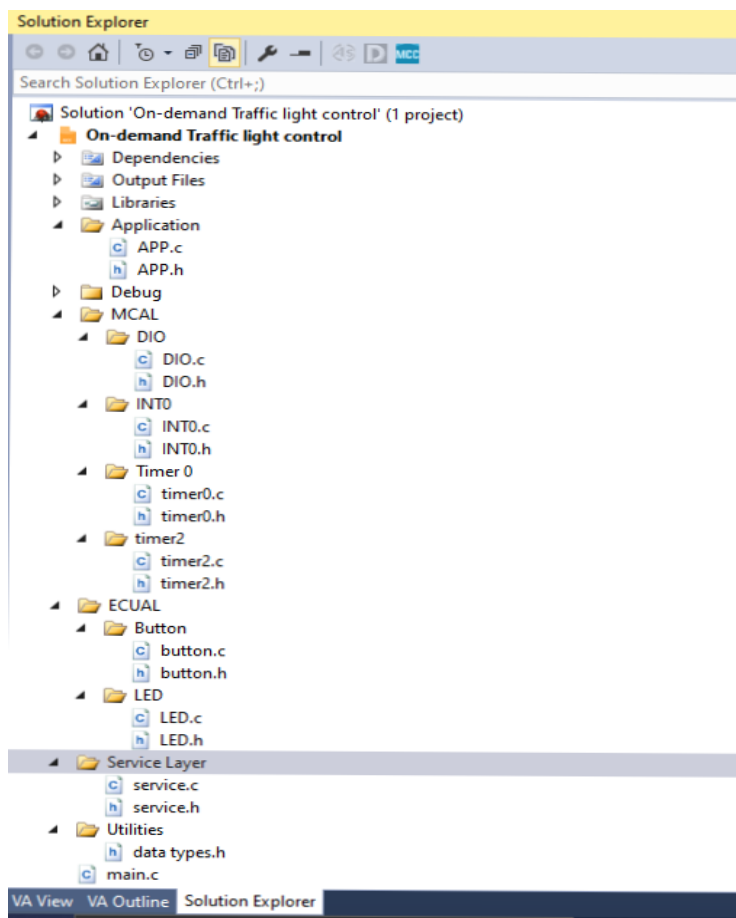
System design:

- The system is designed to run in one of two modes, Normal mode & Pedestrian mode.
- The system consists of 6 LEDs and one push button.
- It runs all the time in the normal mode unless the button is pressed, then it runs in the pedestrian mode.
- In normal mode Cars' LEDs will be changed every five seconds starting from Green then yellow then red then yellow then Green, The Yellow LED will blink for five seconds before moving to Green or Red LEDs and for the pedestrian LEDs it will be opposite to cars LEDs.
- If entered pedestrian mode while car green led is on the yellow LED start blinking for 5 secs then the car red and the pedestrian LED turns on.

System Layers:

- APPLICATION
- SERVICE LAYER
- ECUCAL
- MCAL
- MICROCONTROLLER

Solution Explorer:



System flowchart:

