**Static Design for Traffic Light**

**Microcontroller**

**DIO**

**Led**

**APP**

**APP**

**ECUAL**

**MCAL**

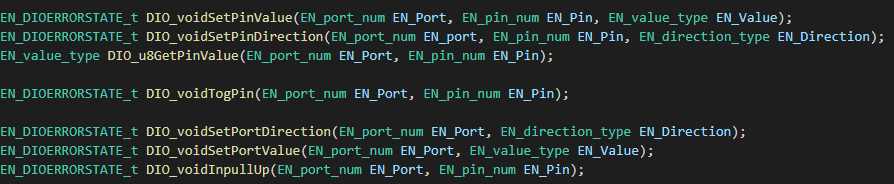
Services

**SER\_UART**

**UART**

**MCAL APIs**

* **DIO APIs**



* **UART APIs**

EN\_ERRORSTATE\_t UART\_ENInit(void);

EN\_ERRORSTATE\_t UART\_ENSendData(uint8\_t Data);

EN\_ERRORSTATE\_t UART\_ENSendNoBlock(uint8\_t Data);

uint8\_t UART\_u8ReceiveData(void);

uint8\_t UART\_u8Receive NoBlock(uint8\_t \*Data);

**ECUAL APIs**

* **Led APIs**

Void LED\_voidInit(void);

Void LED\_voidOn(uint8\_t Led\_Num);

Void LED\_voidOff(uint8\_t Led\_num);

Void LED\_voidToggle(uint8\_t Led\_num);

**Services APIs**

* **SER\_UART APIs**

Void SER\_UARTvoidSendString(uint8\_t \*Str);

Void SER\_UARTvoidReceiveString(uint8\_t \*Str);

Void SER\_UARTvoidReceiveStringNoBLOCKING(uint8\_t \*Str);

Void SER\_UARTvoidSendLongNum(uint32\_t Numb);

uint32\_t SER\_UARTvoidReceiveLongNum(void);

**APP APIs**

Void TrafficLight\_voidIni(void);

voidTrafficLight\_voidStart(void);