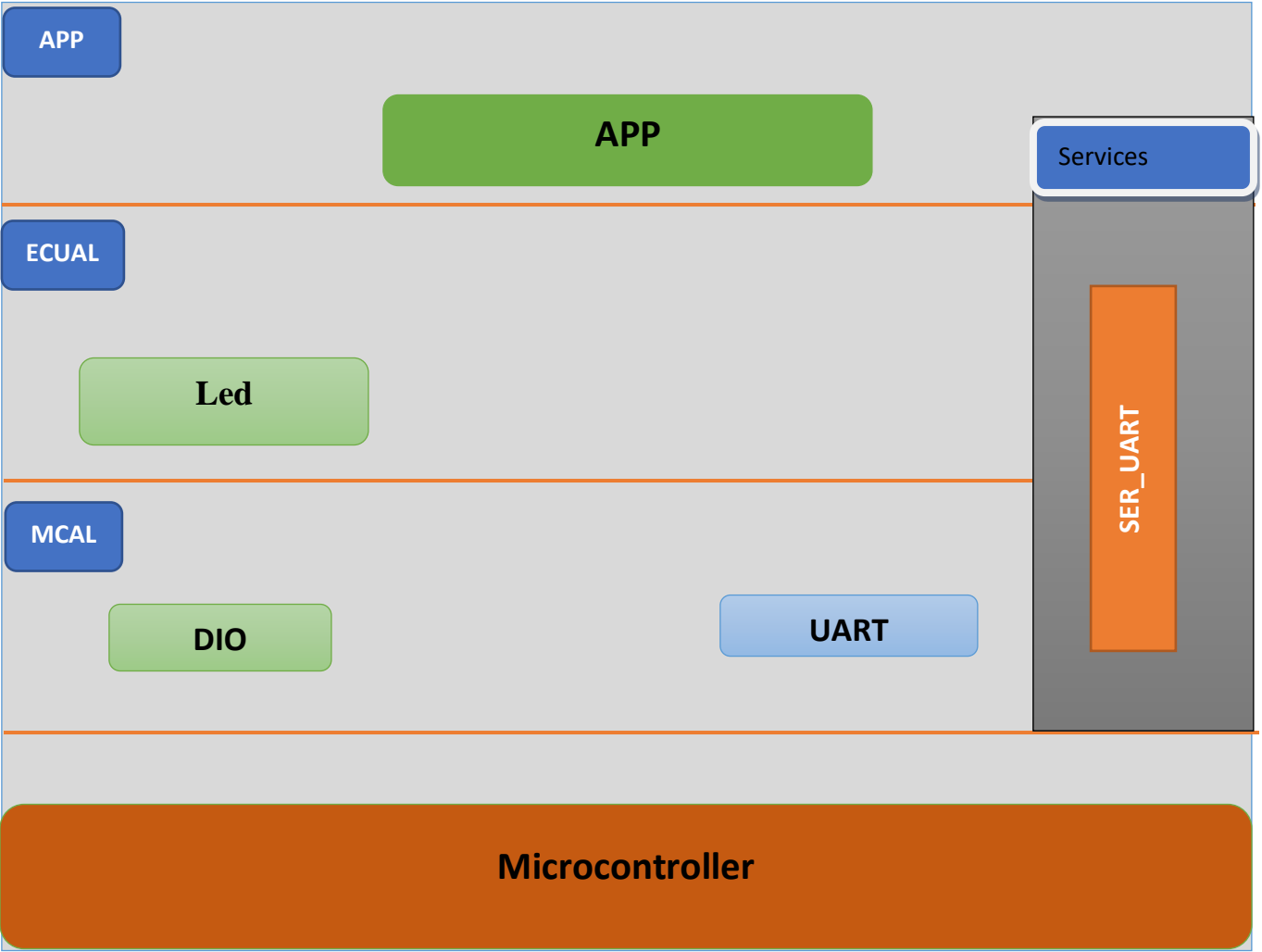


Static Design for Traffic Light



## MCAL APIs

- DIO APIs

```
EN_DIOERRORSTATE_t DIO_voidSetPinValue(EN_port_num EN_Port, EN_pin_num EN_Pin, EN_value_type EN_Value);
EN_DIOERRORSTATE_t DIO_voidSetPinDirection(EN_port_num EN_Port, EN_pin_num EN_Pin, EN_direction_type EN_Direction);
EN_value_type DIO_u8GetPinValue(EN_port_num EN_Port, EN_pin_num EN_Pin);

EN_DIOERRORSTATE_t DIO_voidTogPin(EN_port_num EN_Port, EN_pin_num EN_Pin);

EN_DIOERRORSTATE_t DIO_voidSetPortDirection(EN_port_num EN_Port, EN_direction_type EN_Direction);
EN_DIOERRORSTATE_t DIO_voidSetPortValue(EN_port_num EN_Port, EN_value_type EN_Value);
EN_DIOERRORSTATE_t DIO_voidInpullUp(EN_port_num EN_Port, EN_pin_num EN_Pin);
```

- 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);
```