

**BCM**

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SPRINT   
10

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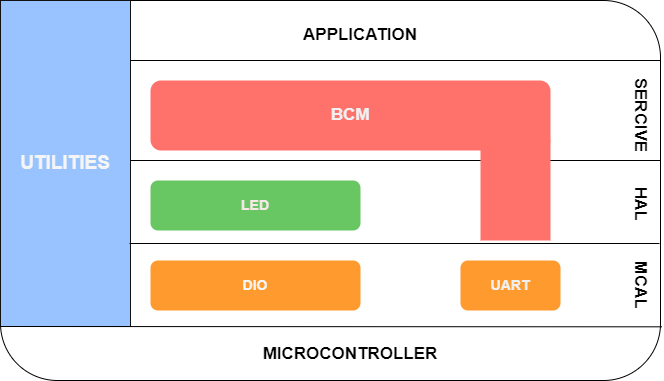
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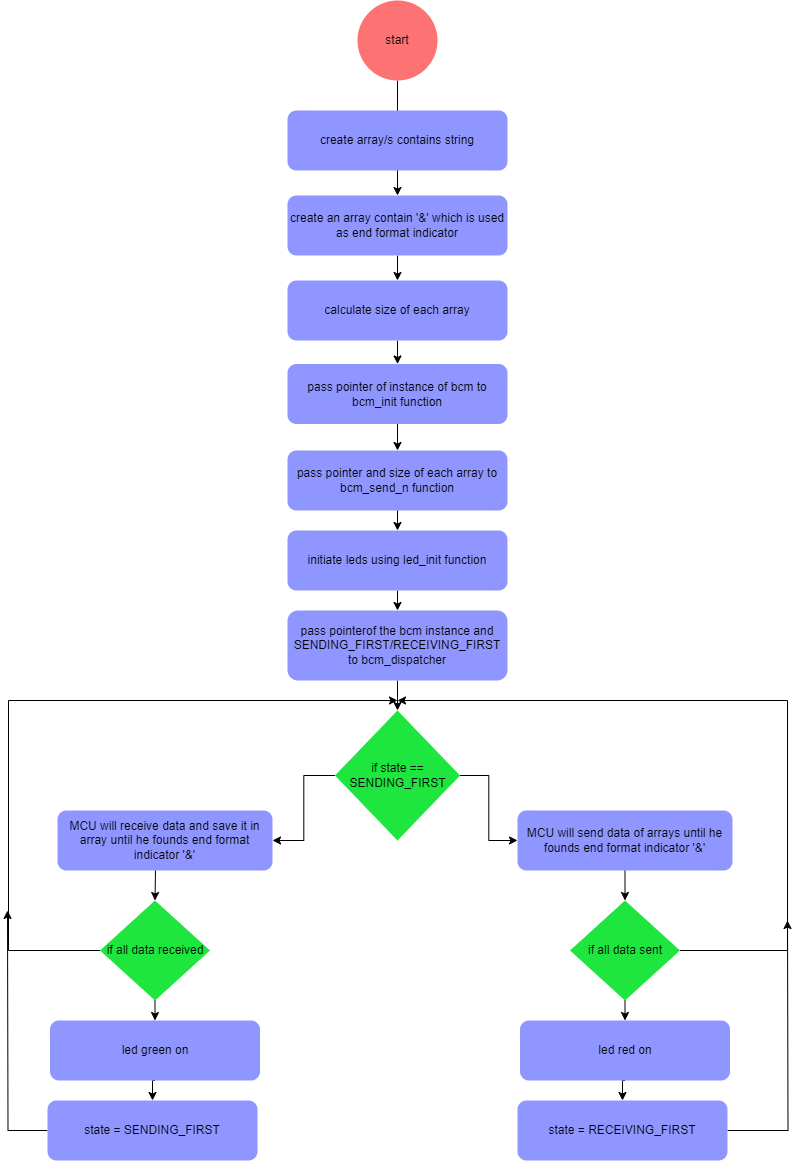
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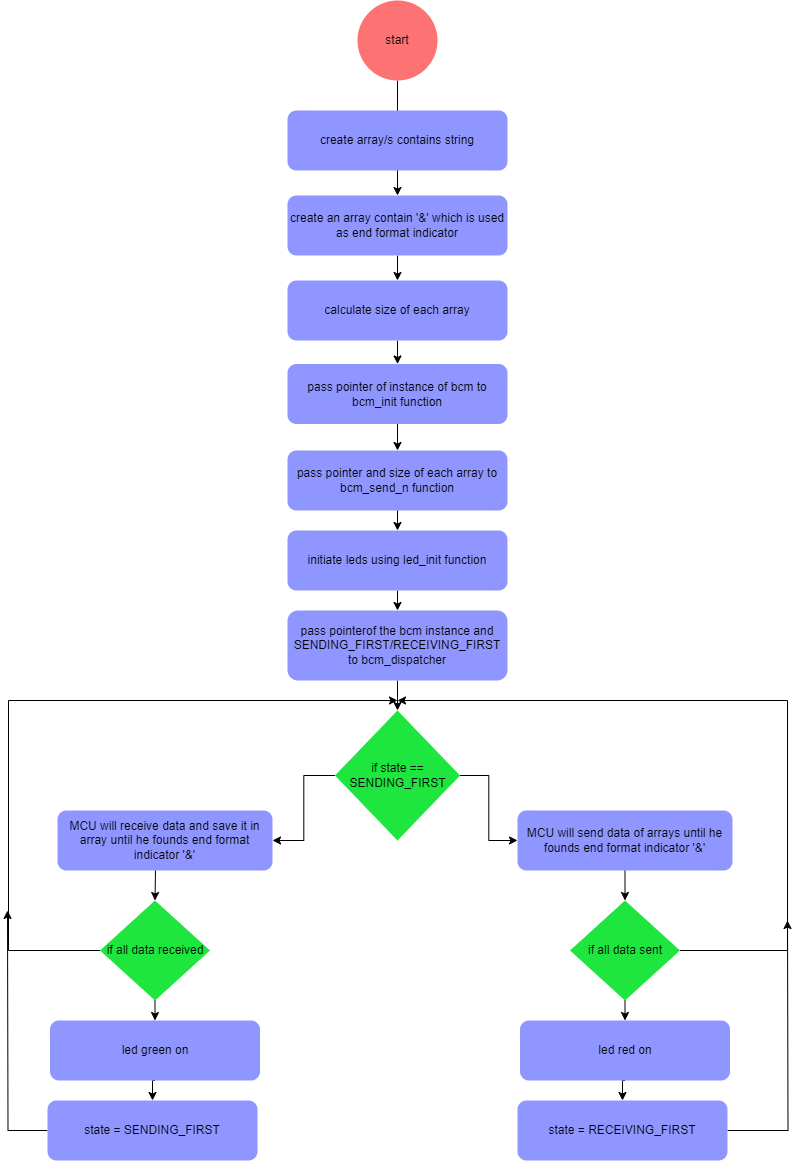
# LAYERED ARCHTICTURE

**LED SEQUENCE V1.0 PAGE 2**



# PROJECT FLOWCHART





# DRIVERS

## MCAL

### DIO DRIVER

Dio\_ErrorStatus Dio\_init(void);

Dio\_ErrorStatus Dio\_WriteChannel(Dio\_Channel channel , Dio\_status state);

Dio\_ErrorStatus Dio\_ReadChannel(Dio\_Channel channel);

|  |  |  |
| --- | --- | --- |
| **DIO\_init** | **DIO\_write** | **DIO\_read** |
|  |  |  |

Configurations :

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### USART DRIVER

uart\_error\_state USART\_init(void);

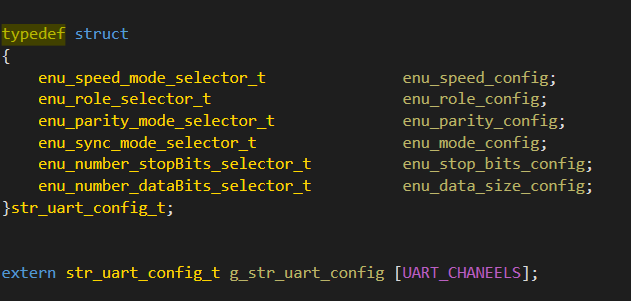
uart\_error\_state USART\_transmit(uint8\_t data);

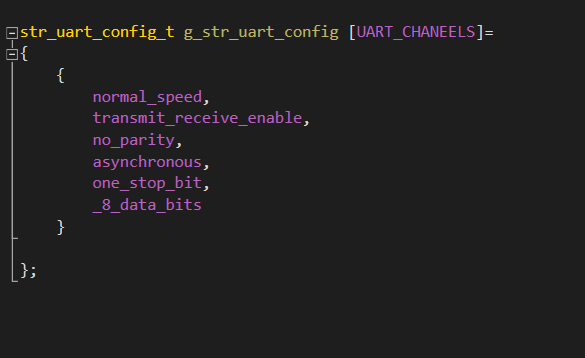
uart\_error\_state USART\_receive(uint8\_t \*data);

|  |  |  |
| --- | --- | --- |
|  |  |  |

Configurations :

|  |  |
| --- | --- |
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## 

## HAL

### LED DRIVER

Dio\_ErrorStatus LED\_init(PORT\_NUM portNum , PIN\_NUM pinNum); Dio\_ErrorStatus LED\_on (PORT\_NUM portNum , PIN\_NUM pinNum); Dio\_ErrorStatus LED\_off(PORT\_NUM portNum , PIN\_NUM pinNum);

|  |  |  |
| --- | --- | --- |
| **LED\_init** | **LED\_on** | **LED\_off** |
|  |  |  |

## SERVICE

### BCM

enu\_sysem\_status\_t bcm\_init(str\_bcm\_instance\_t \*ptr\_bcm\_instance\_t);

enu\_sysem\_status\_t bcm\_denit(str\_bcm\_instance\_t \*ptr\_bcm\_instance\_t);

enu\_bcm\_send\_state\_t bcm\_send( str\_bcm\_instance\_t \*ptr\_bcm\_instance\_t ,uint8\_t \* ptr\_buffer);

enu\_bcm\_send\_state\_t bcm\_send\_n( str\_bcm\_instance\_t \*ptr\_bcm\_instance\_t , uint8\_t \* ptr\_buffer,uint8\_t a\_buffer\_length);

enu\_bcm\_send\_state\_t bcm\_disbatcher(str\_bcm\_instance\_t \*ptr\_bcm\_instance\_t , enu\_bcm\_first\_use a\_first\_use);

|  |
| --- |
| bcm\_init |
|  |

|  |
| --- |
| bcm\_send\_n |
|  |

Configurations :

