High level design

Module description

Buzzer module

The buzzer module is responsible for the initialization of the pins connected to the buzzer module and controls the state of the buzzer.

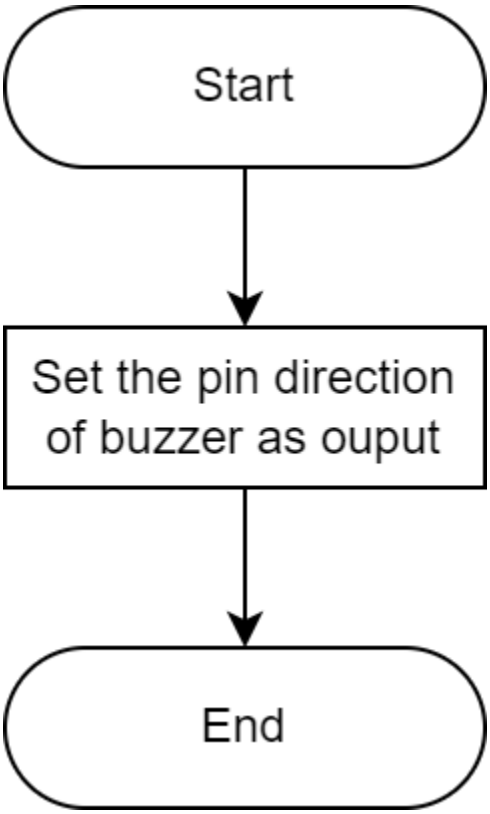
Buzzer driver documentation

```
/**
 * @brief Initializes the pin connected to the buzzer.
 * @param[in] port_id Specifies the GPIO port to be configured.
 * This parameter can be one of PORTx_ID.
 * @param[in] pin_id Specifies the GPIO pin to be configured.
 * This parameter can be one of PINx_ID.
 */
void BUZZER_init(uint8 port_id, uint8 pin_id);

/**
 * @brief Turns on the buzzer.
 * @param[in] port_id Specifies the GPIO port to be configured.
 * This parameter can be one of PORTx_ID.
 * @param[in] pin_id Specifies the GPIO pin to be configured.
 * This parameter can be one of PINx_ID.
 */
void BUZZER_on(uint8 port_id, uint8 pin_id);

/**
 * @brief Turns off the buzzer.
 * @param[in] port_id Specifies the GPIO port to be configured.
 * This parameter can be one of PORTx_ID.
 * @param[in] pin_id Specifies the GPIO pin to be configured.
 * This parameter can be one of PINx_ID.
 */
void BUZZER_off(uint8 port_id, uint8 pin_id);
```

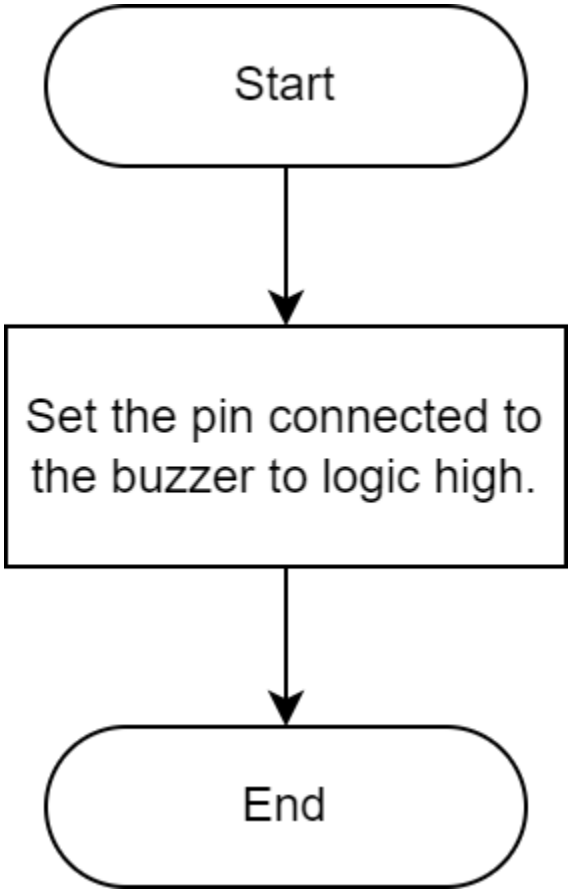
Low level Design

Buzzer module

`void BUZZER_init`



void BUZZER_on



void BUZZER_off