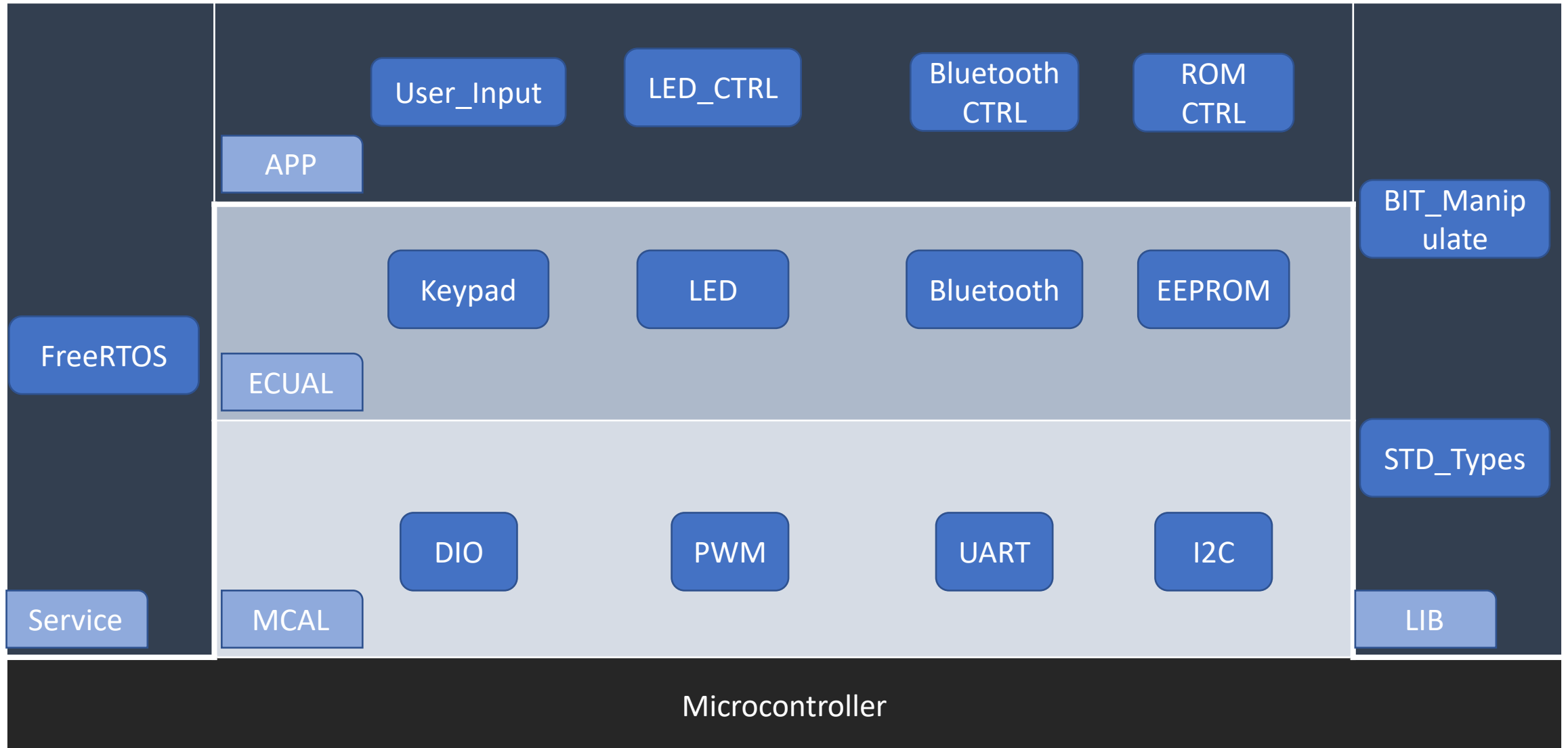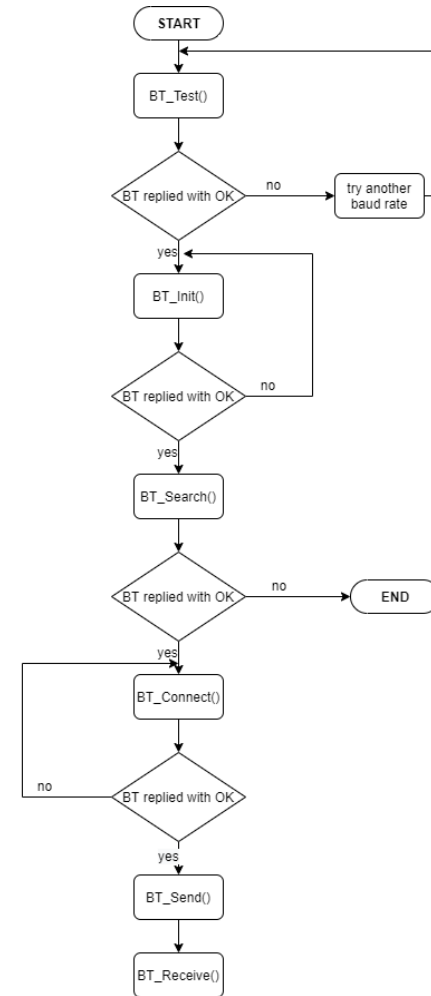- Master Machine

Static Design
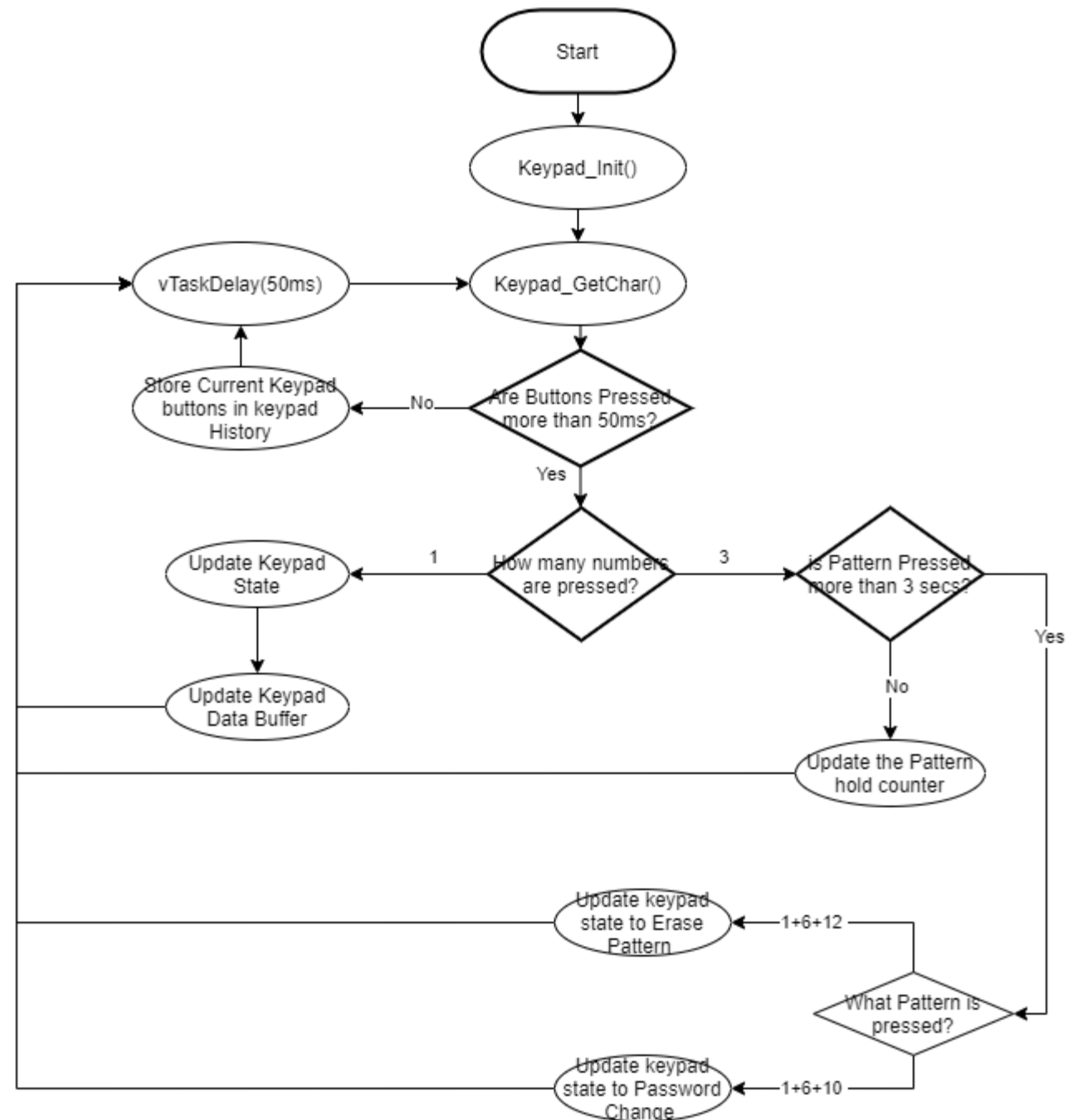
- Master Machine Dynamic design

- Bluetooth Task

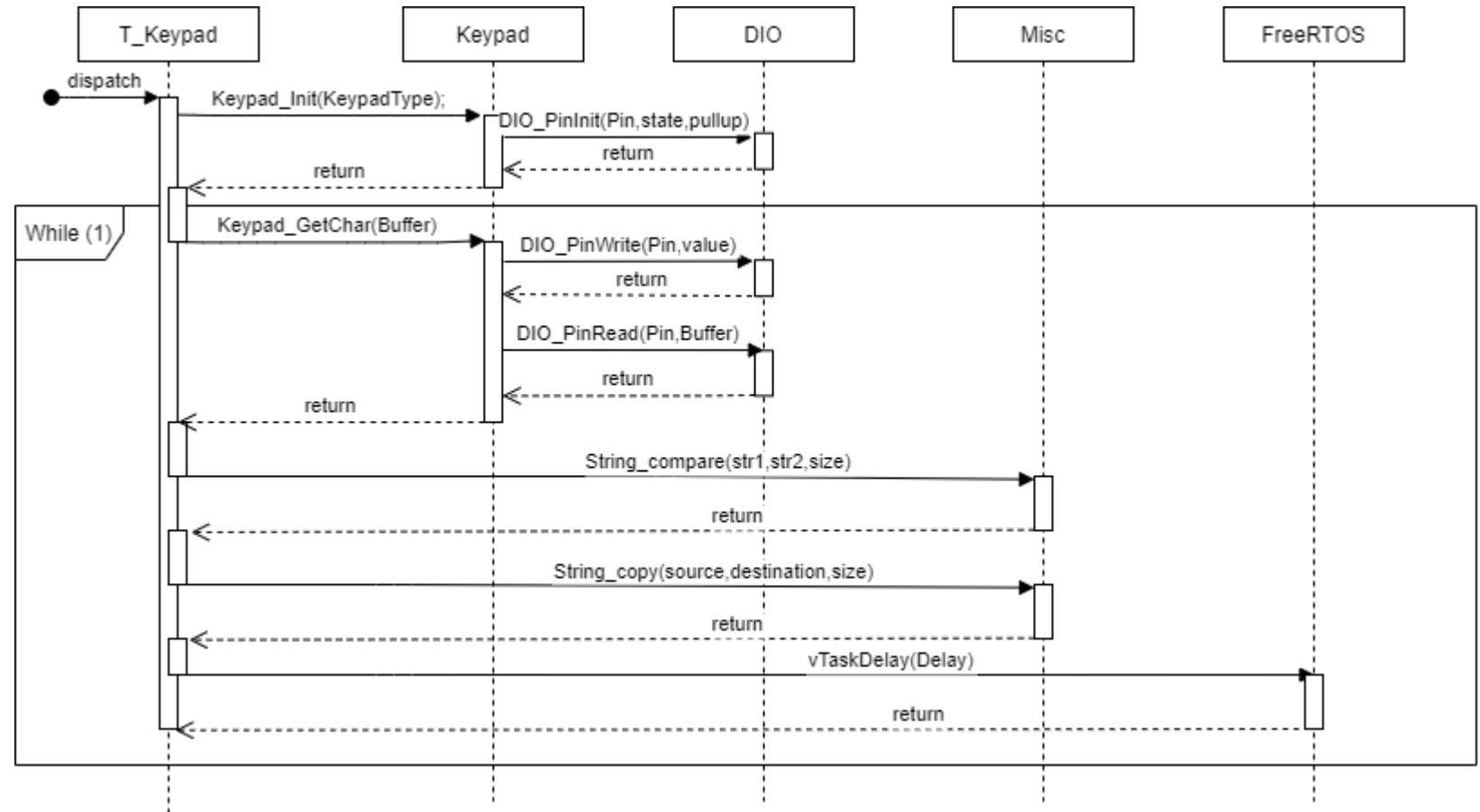# - Master Machine Dynamic design

- Keypad Task
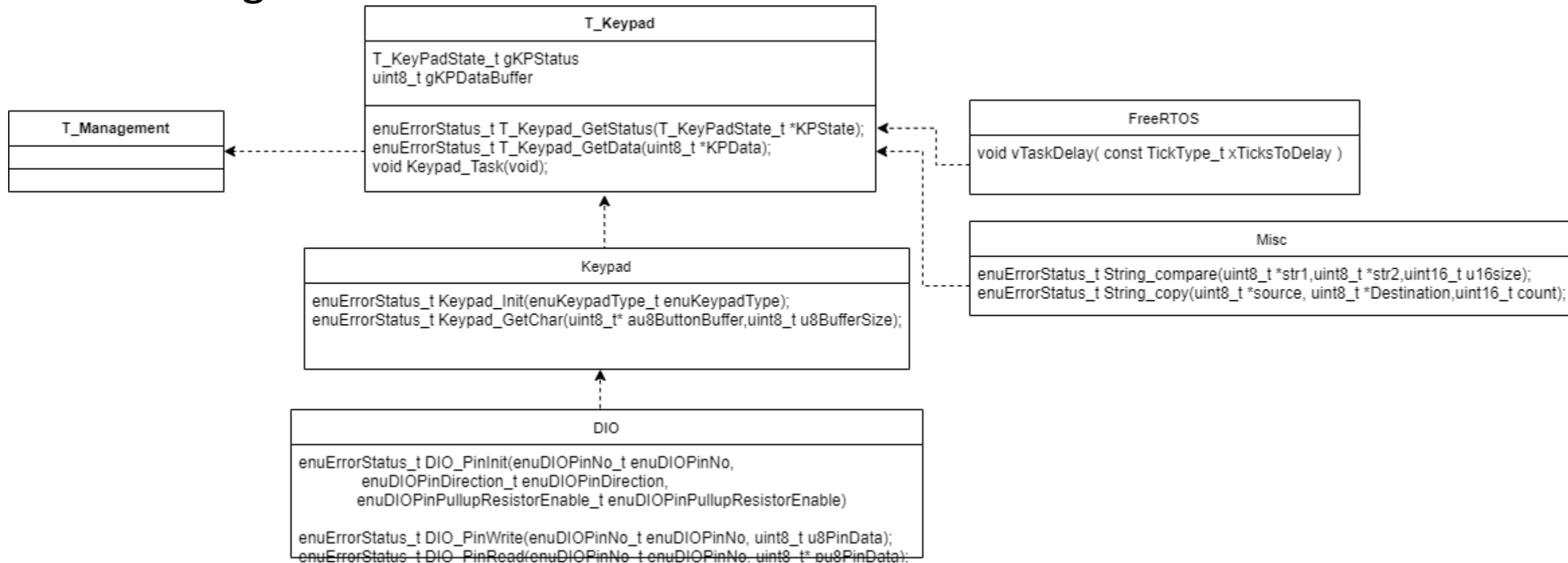- ➢ Flowchart

- Master Machine Dynamic design

- Keypad Task

➢ Sequence Diagram

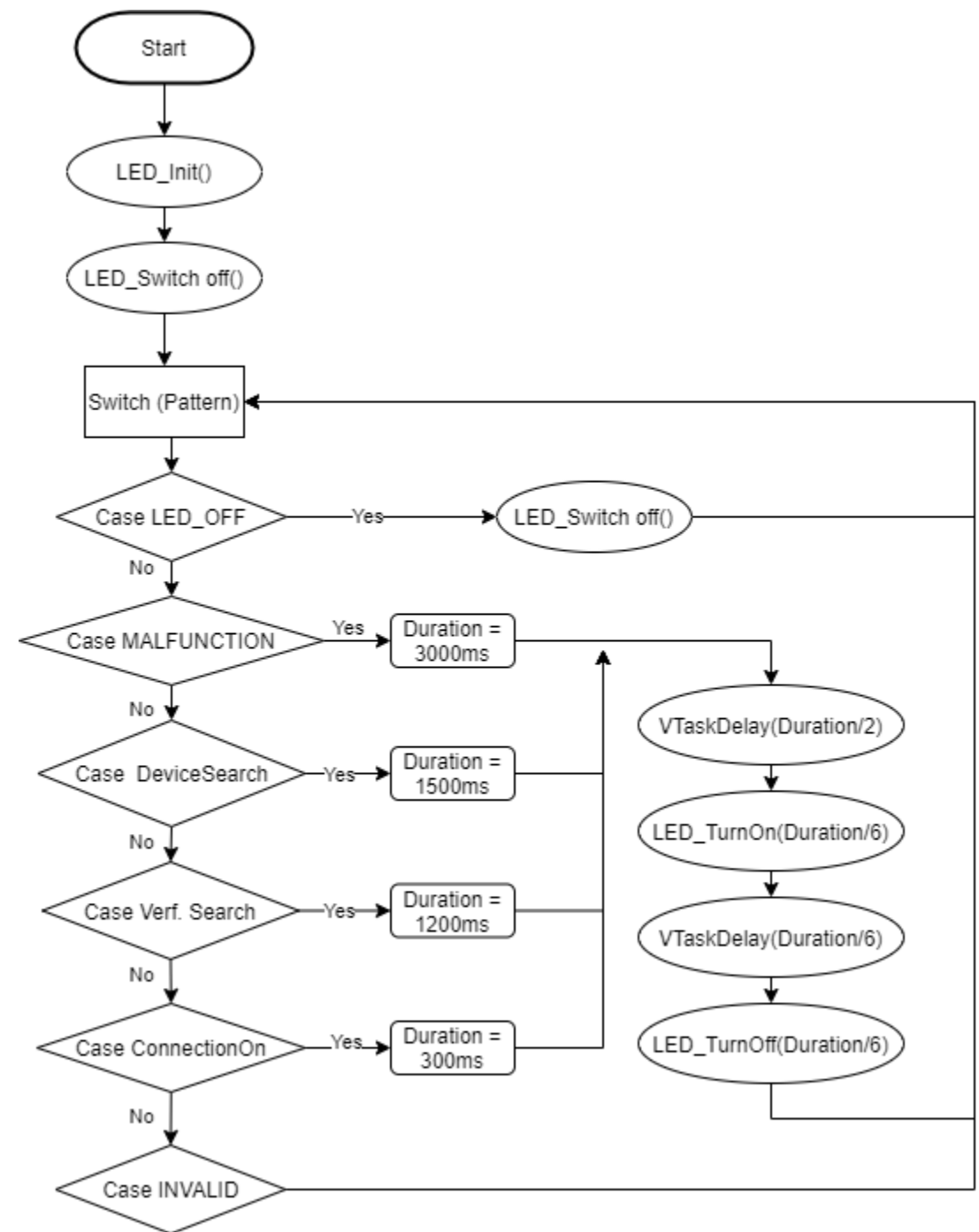# - Master Machine Dynamic design

- Keypad Task
- ➢ Class Diagram

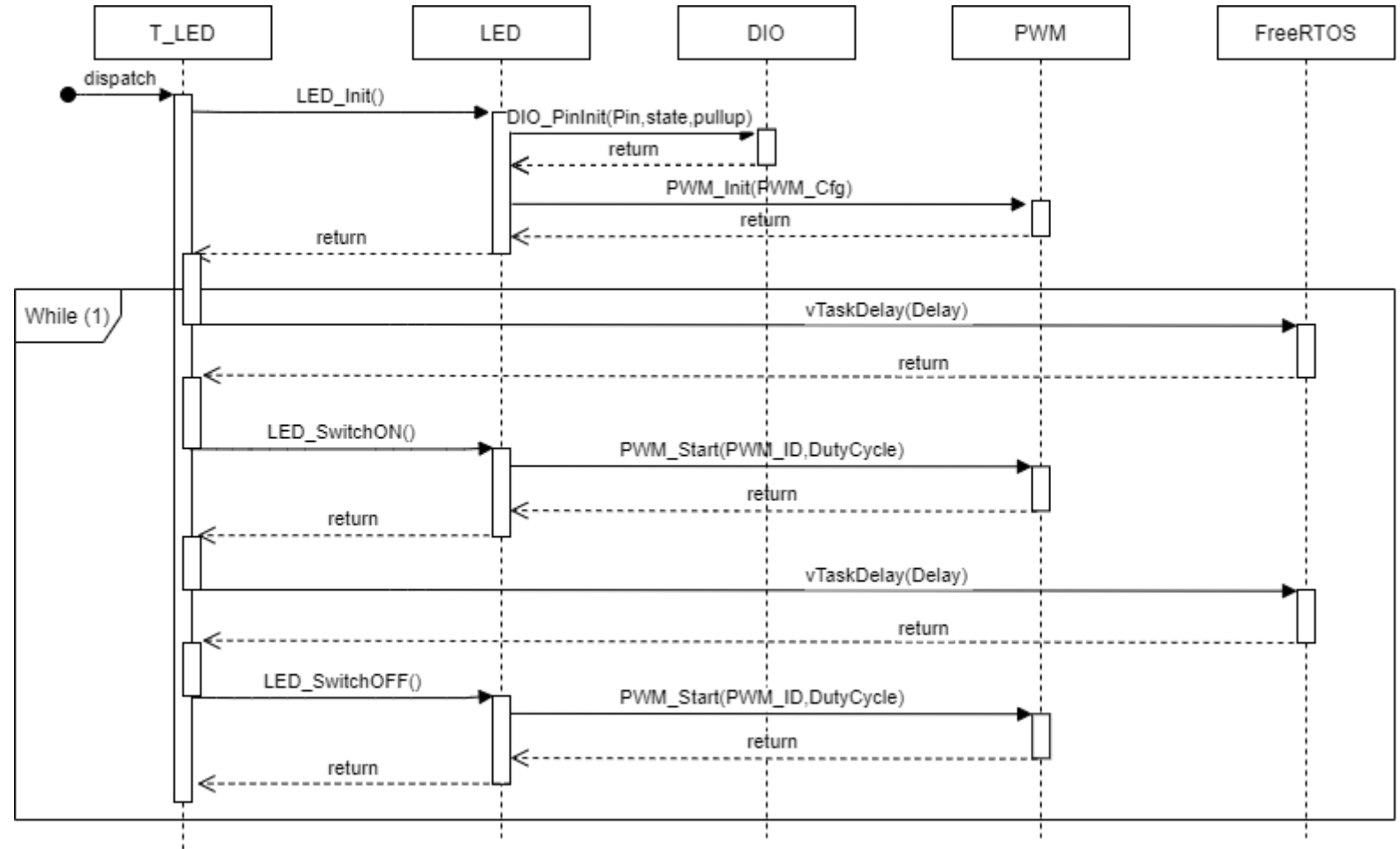# - Master Machine Dynamic design

- LED Task

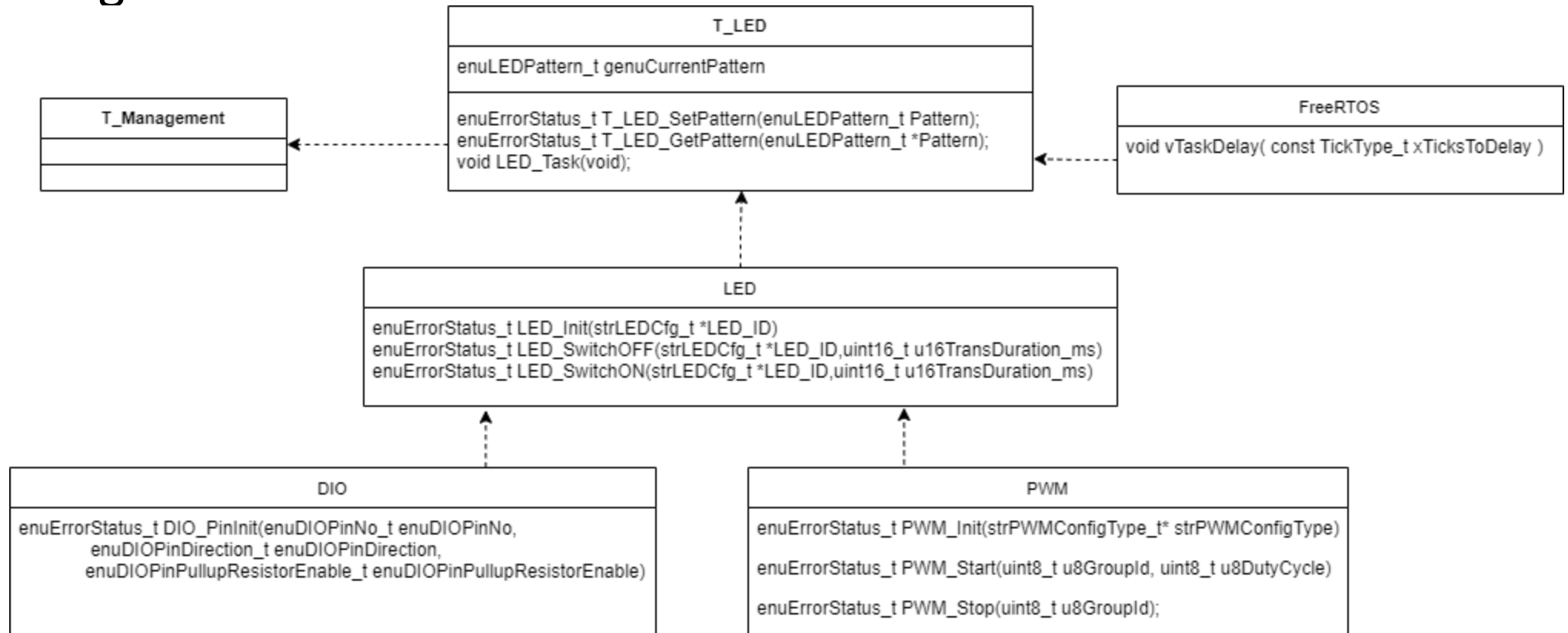➢Flowchart

- Master Machine Dynamic design

- LED Task

➢Sequence Diagram

- Master Machine Dynamic design

- LED Task
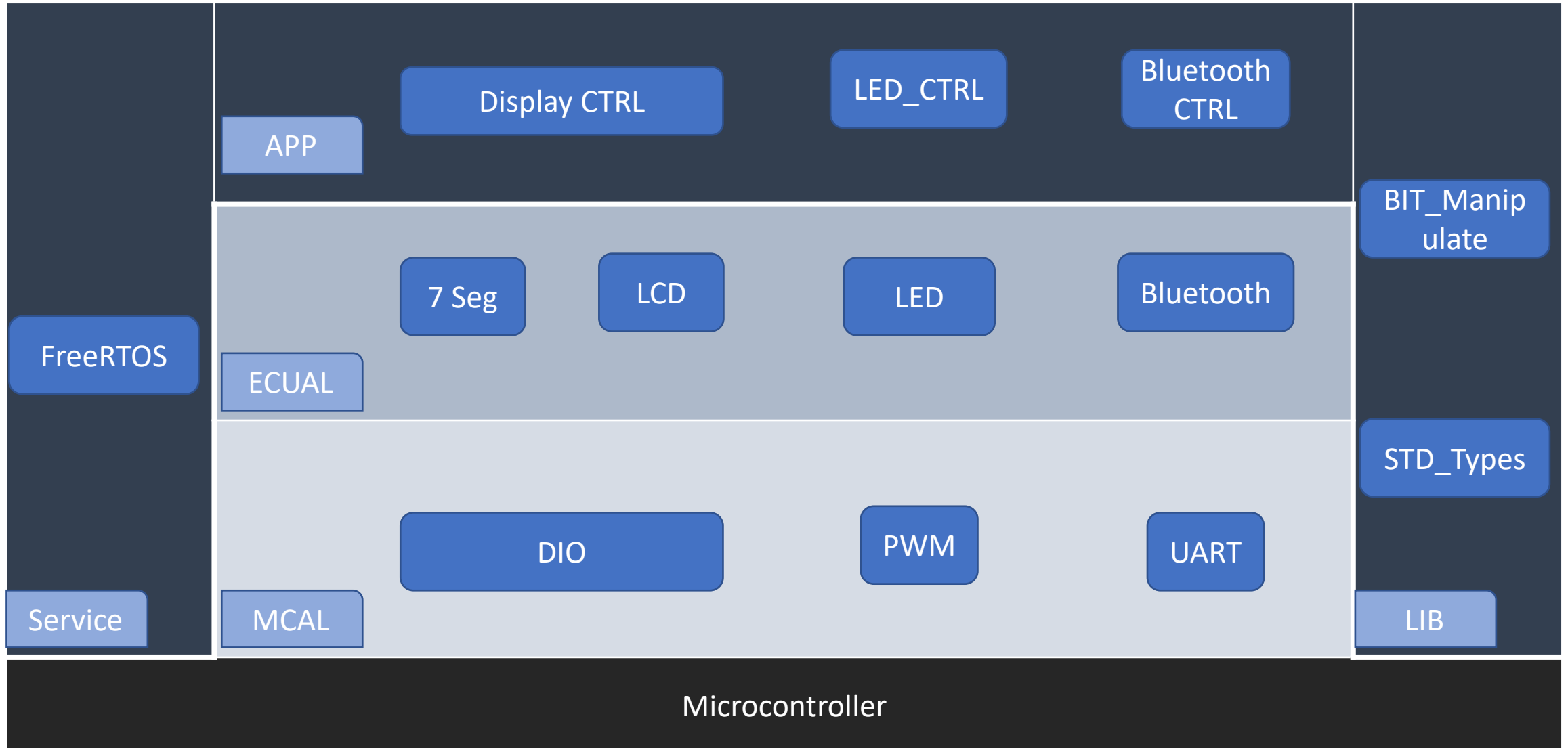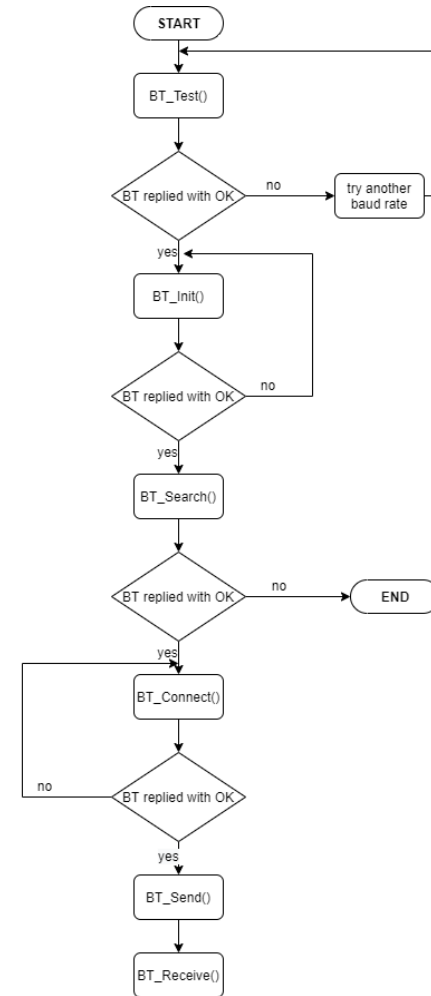
➢Class Diagram

- SLAVE Machine

Static Design

- SLAVE Machine
Dynamic design
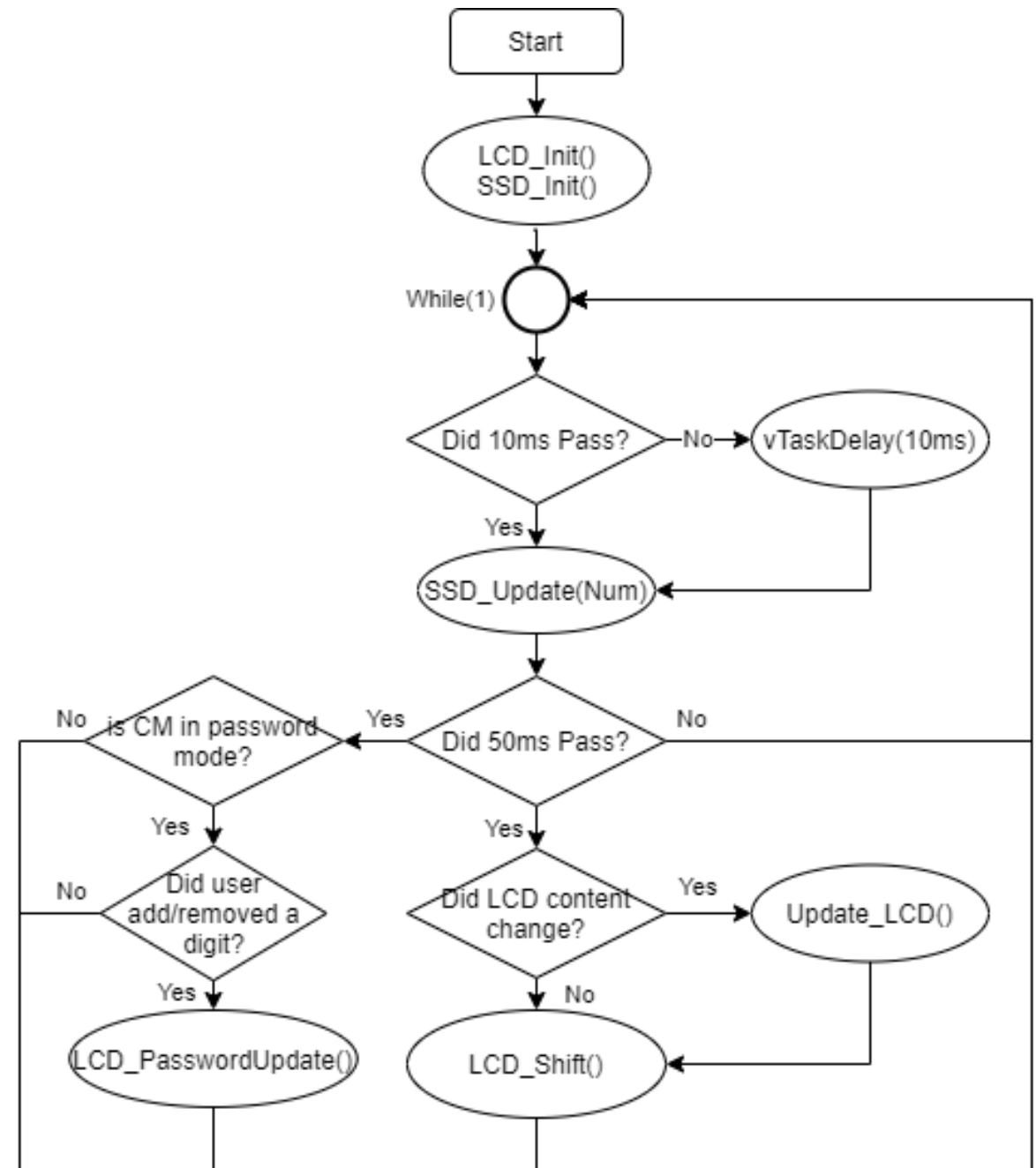
- Bluetooth Task

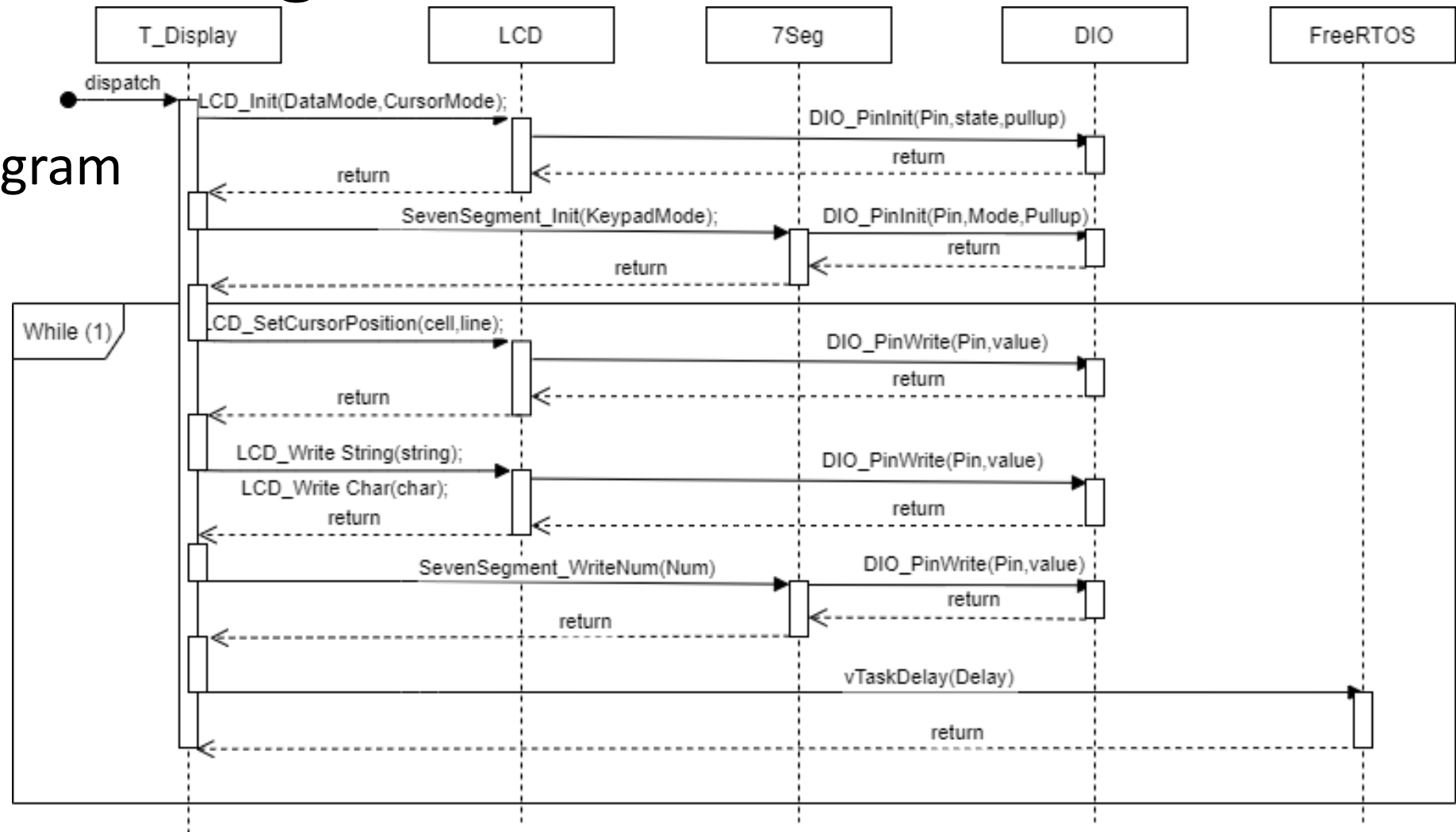# - SLAVE Machine Dynamic design

- Display Task

➤Flowchart

- SLAVE Machine
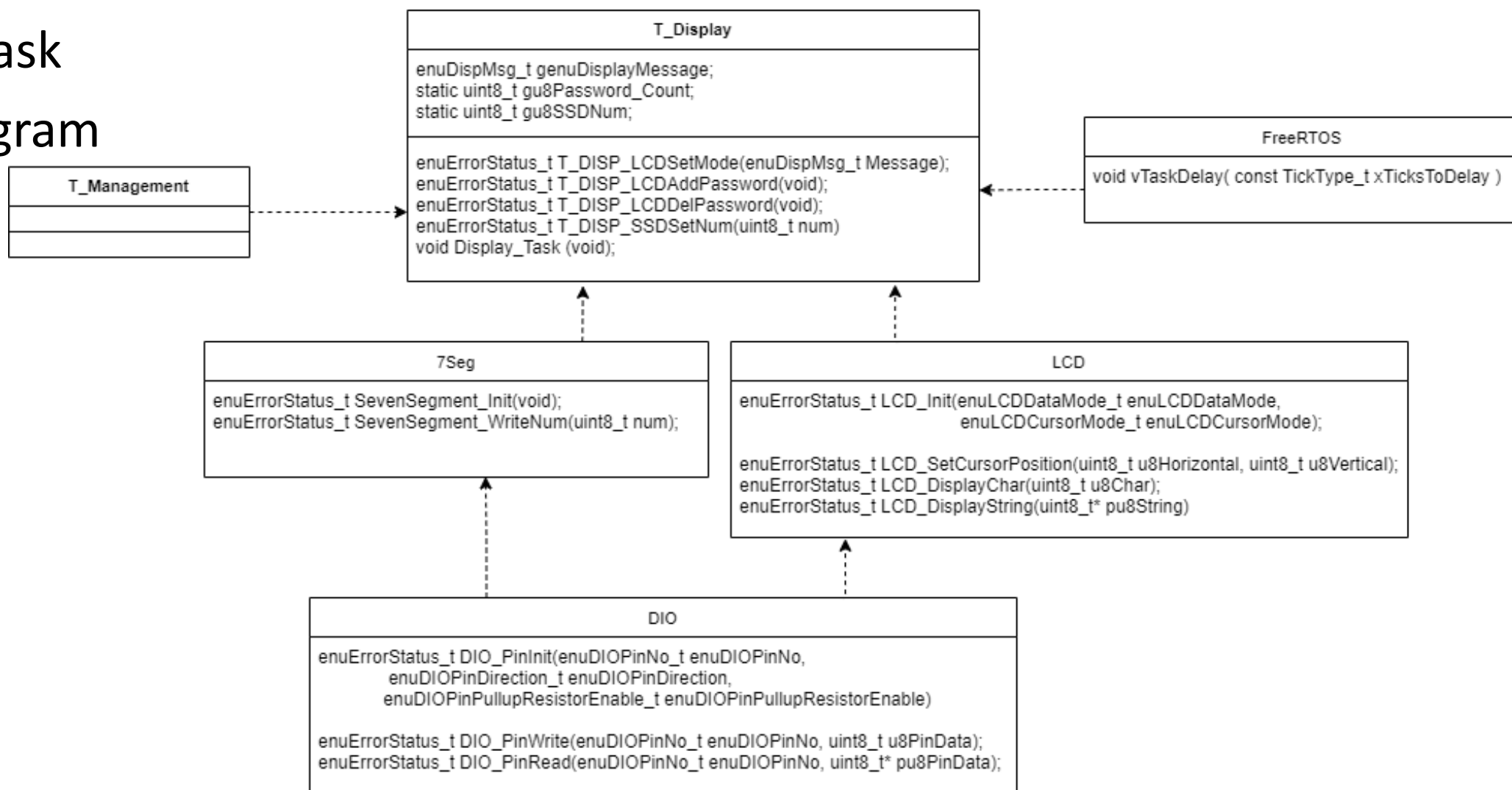## Dynamic design

- Display Task
- ➢ Sequence Diagram
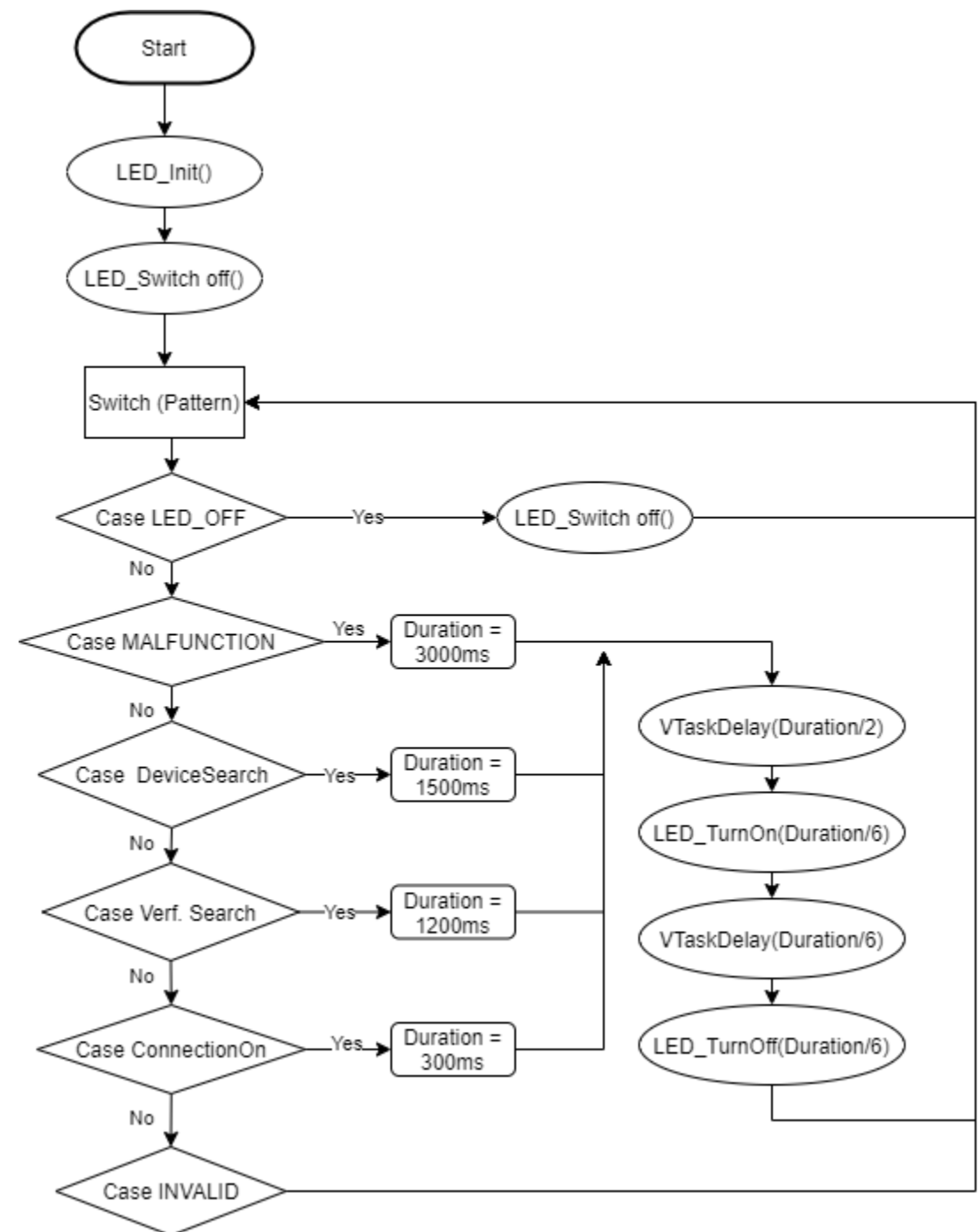
- SLAVE Machine Dynamic design

- Display Task
- ➢ Class Diagram

T_Display

enuDispMsg_t genuDisplayMessage;
static uint8_t gu8Password_Count;
static uint8_t gu8SSDNum;

enuErrorStatus_t T_DISP_LCDSetMode(enuDispMsg_t Message);
enuErrorStatus_t T_DISP_LCDAddPassword(void);
enuErrorStatus_t T_DISP_LCDDelPassword(void);
enuErrorStatus_t T_DISP_SSDSetNum(uint8_t num)
void Display_Task (void);

T_Management

FreeRTOS

void vTaskDelay(const TickType_t xTicksToDelay)

7Seg

enuErrorStatus_t SevenSegment_Init(void);
enuErrorStatus_t SevenSegment_WriteNum(uint8_t num);

LCD

enuErrorStatus_t LCD_Init(enuLCDDataMode_t enuLCDDataMode,
                          enuLCDCursorMode_t enuLCDCursorMode);

enuErrorStatus_t LCD_SetCursorPosition(uint8_t u8Horizontal, uint8_t u8Vertical);
enuErrorStatus_t LCD_DisplayChar(uint8_t u8Char);
enuErrorStatus_t LCD_DisplayString(uint8_t* pu8String)

DIO

enuErrorStatus_t DIO_PinInit(enuDIOPinNo_t enuDIOPinNo,
        enuDIOPinDirection_t enuDIOPinDirection,
        enuDIOPinPullupResistorEnable_t enuDIOPinPullupResistorEnable)

enuErrorStatus_t DIO_PinWrite(enuDIOPinNo_t enuDIOPinNo, uint8_t u8PinData);
enuErrorStatus_t DIO_PinRead(enuDIOPinNo_t enuDIOPinNo, uint8_t* pu8PinData);

- SLAVE Machine Dynamic design

- LED Task

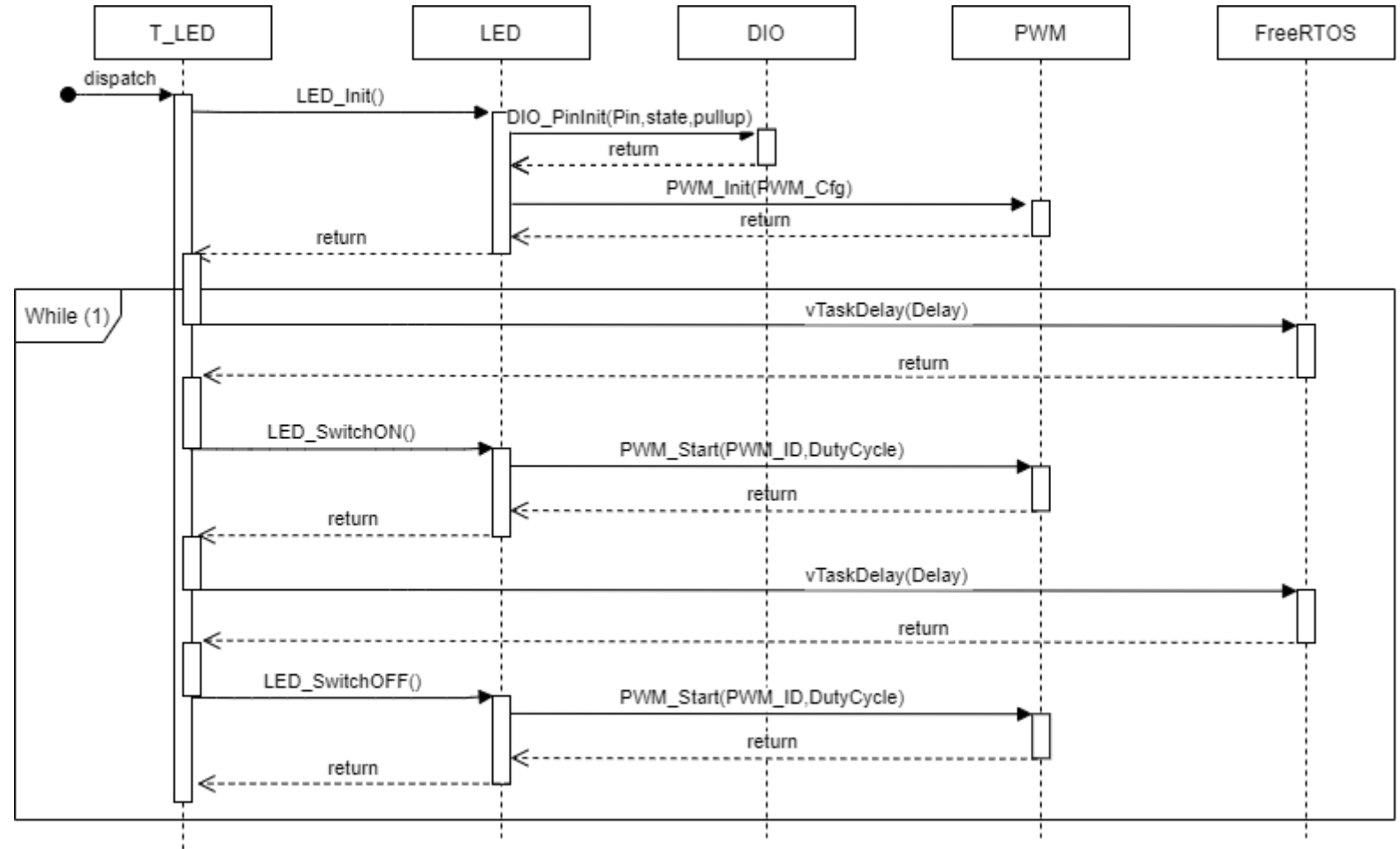➢Flowchart

- SLAVE Machine
Dynamic design

• LED Task

➢Sequence Diagram

- SLAVE Machine
Dynamic design

- LED Task

➢ Class Diagram