

receive_status is set by a Uart observer to
inform the completion of reception and
DataFrame is filled by the observer

parse_status is set by the parser function if the
emergency is detected

Main Function Should implement the logic of button

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The logic is to check the button status and consider (pressed)
if the pressed level (a range of value determined later)
is detected 10 consecutive times

EVD(Emergency vehicle detection)
- receive_status: int - DataFrame: int[] - Parser_status: int
+ EVD_ParseFrame(int[]) + EVD_MainFunction()

Button
- Button_status: int
+ Button_GetReading(): int + Button_GetStatus(): int + Button_MainFunction()

Control leds using Pwm not Dio

Main Function Should implement the logic of button
Main function should handle the transition between
the 2 SS displays.

activeSS determine which display is active

Led
+ Led_Color: int
- Led_TurnOn(int channel_id) - Led_TurnOff(int channel_id) + LedMainFunction()

SS(seven segment)
- SS_status1: int - SS_status2: int
- SS_Write(int shape) + SS_MainFunction()