

1- include for libraries
and drivers interface

2- main function

- From IntCtrl driver
in the MCal layer

- From SysCtrl-Clock driver
in the MCal layer

- From Port driver
in the MCal layer

- From SysTick driver
in the MCal layer

- From EXTI driver
in the MCal layer

- From EXTI driver
in the MCal layer

- From IntCtrl driver
in the MCal layer

- From Led Driver in the
MCal layer and use
Dio Driver from the
MCal layer

From SysTick driver
in the MCal layer

1- Set Priority

2- init clock for the sys

3- Choose the bus for the
Port and enable its clock

4- init the Port based on
the configuration

5- init the SysTick

6- Config the External
Interrupt for the 2
switches

7- Set the funcs for
the ISR of each interrupt
for the 2 switches

8- enable the global interrupt
for the Port

while (1)

1- Turn on the led

2- make it on for a specific
time

3- turn off the led

4- make it off for a specific
time

func 1 \rightarrow for the switch on Port f, Pin 0

{

Increment the value of the delay

}

func 2 \rightarrow for the switch on Port f, Pin 4

{

decrement the value of the delay

}