

# BOOTLOADER PROJECT



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# THE TEAM



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# OBJECTIVES

## OBJECTIVE 1

- Be able to Load or Erase User Firmware from FLash

## OBJECTIVE 2

Can switch between at least 2 firmware stored in different address



# OVERVIEW

BOOT DATA

FIRMWARE 2

FIRMWARE 1

0x20000

BOOTLOADER



# DESIGN

**Bootloader Main App:**

**BootUpdateMode()**

**UART\_SrecHandler()**

**UART\_CMDHandler()**

**Middleware**

**Define Host CMD, memory region for  
firmware, and error type**

**BootSendACK()**

**BootErrorHandler()**

**BootJumptoFirm**

**Drivers:**

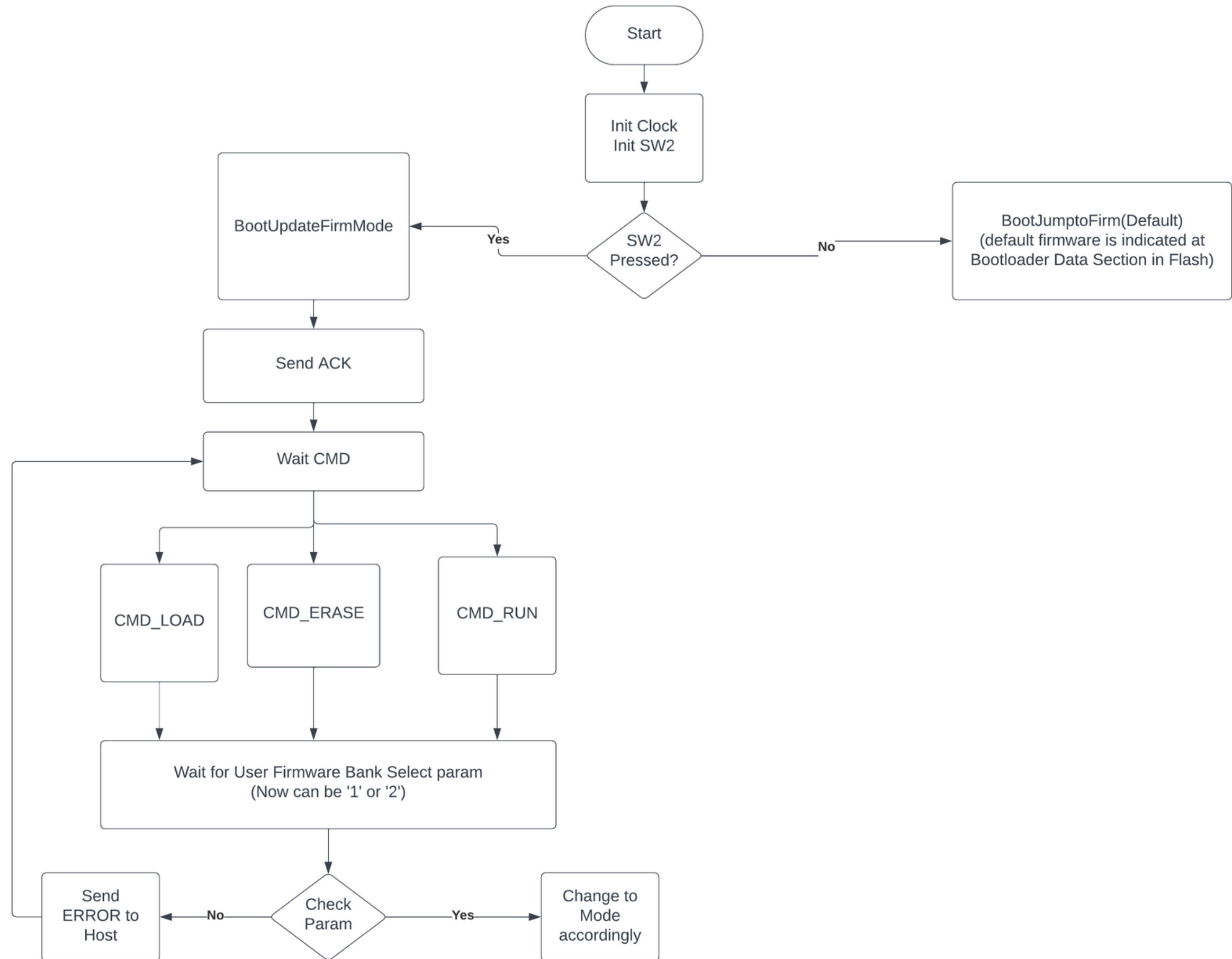
**Flash: Flash\_WriteWord(),**

**Flash\_EraseSector()**

**UART0: Init, Sendstring, ....**

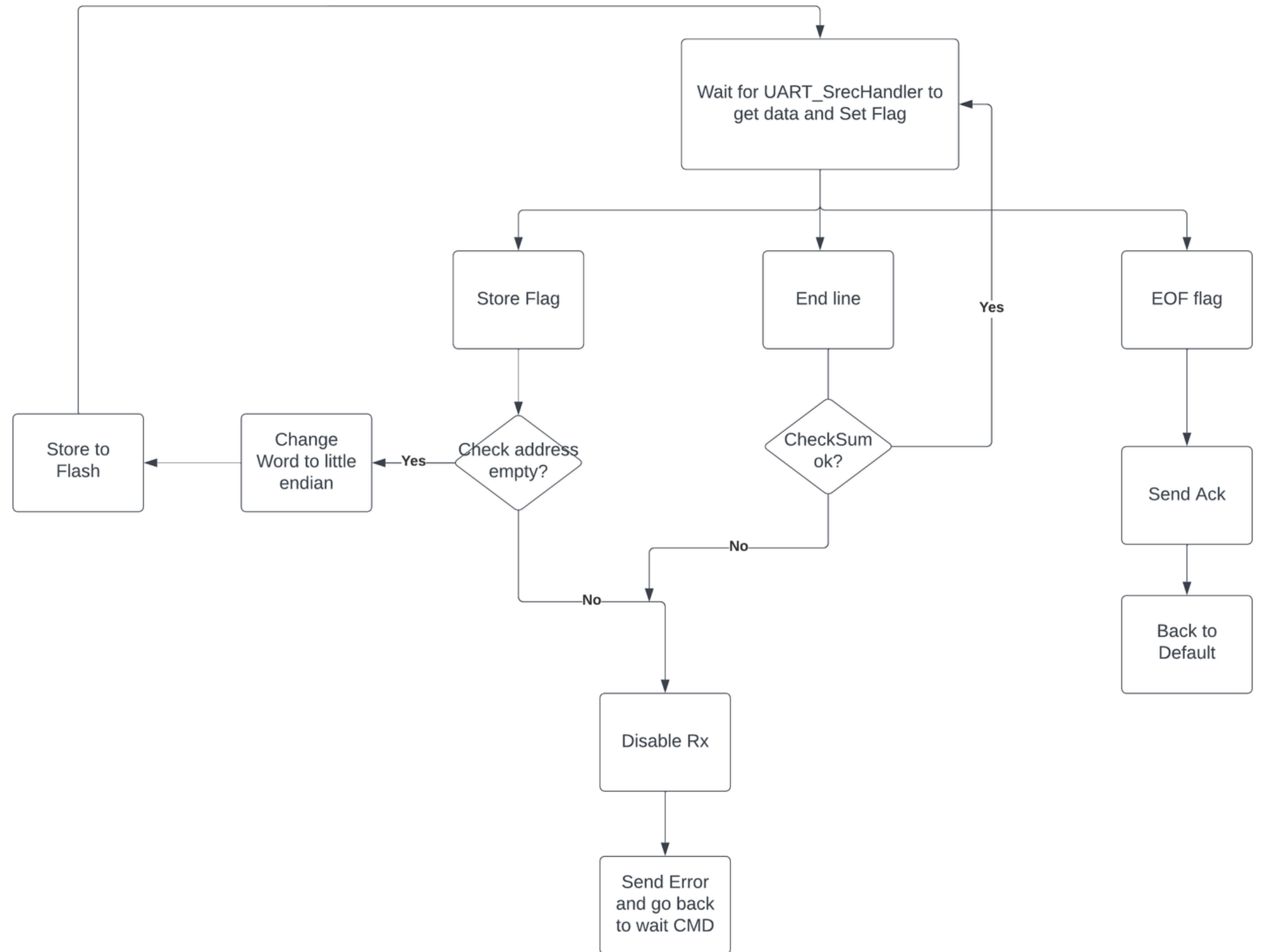
# DESIGN

**Bootloader Main App:  
BootUpdateMode()**



# DESIGN

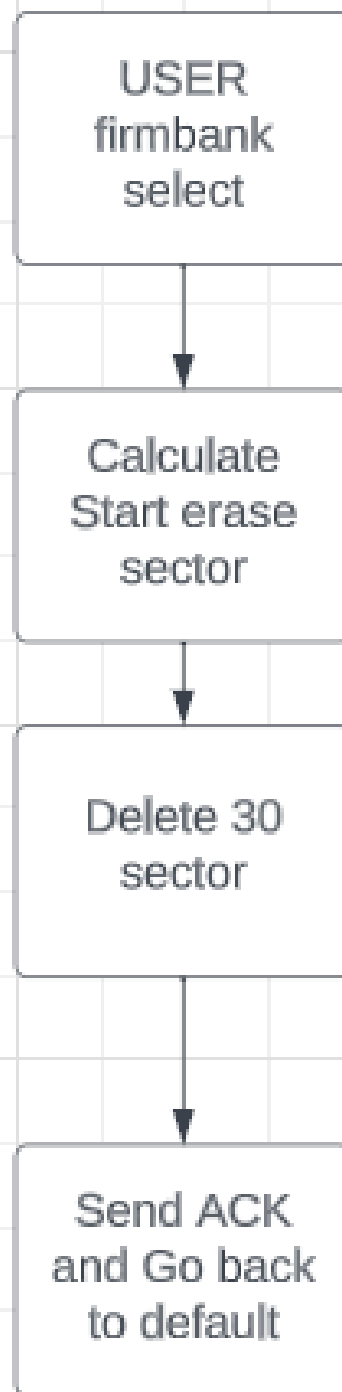
**Bootloader Main App:**  
**BootState = BOOT\_LOAD**





# DESIGN

**Bootloader Main App:**  
**BootState = BOOT\_ERASE**





# DESIGN

**Bootloader Main App:**  
**BootState = BOOT\_RUN**

