# Software execution block diagram
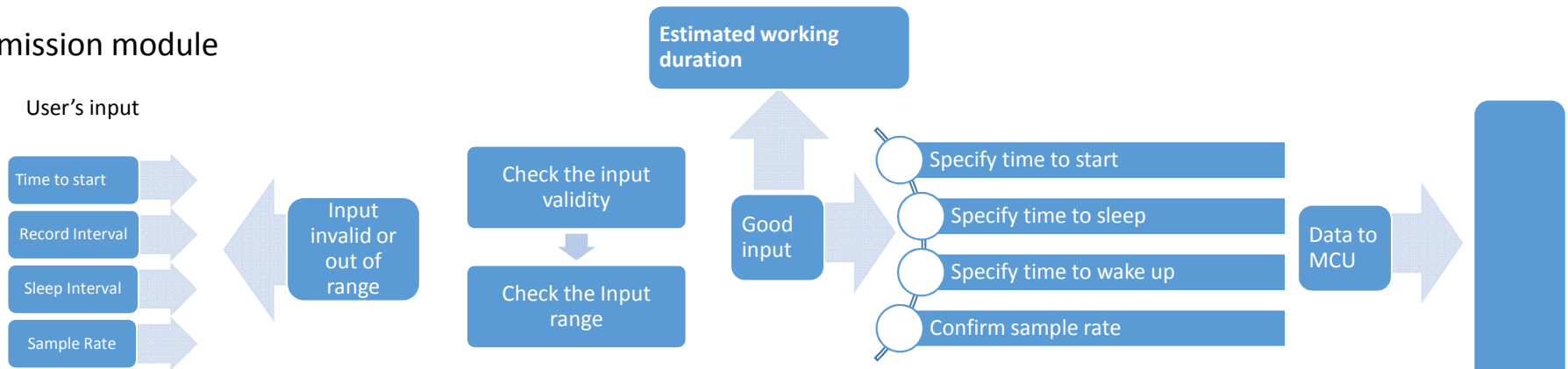
## Pre-mission module

User's input

- Time to start
- Record Interval
- Sleep Interval
- Sample Rate

Input invalid or out of range

Check the input validity

Check the Input range

Estimated working duration

Good input

- Specify time to start
- Specify time to sleep
- Specify time to wake up
- Confirm sample rate

Data to MCU

Pre-mission & In-mission interface

## In-mission module

MUX switch mechanism

Interrupt from RTC

Manage the interference Interrupt signal from RTC

- Specify time to start, sleep and wake up schedule to RTC
- Handle interrupt from RTC
- Handle power on –off of Tascam as per schedule
- Specify sample rate to Tascam
- Switch the Mux to available SD card for storing data
- "Measure" the available space of SD card for storage
- Switch to next available SD card when the current one is full

Verify data and feedback