Logic

DigitalFiltering

+ averagingZeroGroupDelay(in peaks[]: unsigned short, in peakArrayLength: unsigned short, in *totalNumberOfPeaks: unsigned short, in alpha: double)

BPAlgorithm

+ calculateMAP(in peaks[]: unsigned short, in cuffPressure[]: unsigned short, in peakArrayLength: unsigned short, in *totalNumberOfPeaks: unsigned short)
+ calculateSYS(in peaks[]: unsigned short, in cuffPressure[]: unsigned short, in peakArrayLength: unsigned short, in *totalNumberOfPeaks: unsigned short, in MAP: unsigned short)
+ calculateDIA(in peaks[]: unsigned short, in cuffPressure[]: unsigned short, in peakArrayLength: unsigned short, in *totalNumberOfPeaks: unsigned short, in MAP: unsigned short)

Senarios

+ bloodPressure(in *MAP: unsigned short, in *SYS: unsigned short, in *DIA: unsigned short, in *btPressed: boolean)
+ occlusiontrainung(in *start: boolean): unsigned short
+ occlusiontrainung(in pressure: unsigned short): unsigned short

MemoryParser

+ GetNoOfCycles(): unsigned short
+ setNoOfCycles(in val: unsigned short)
+ getTimePerCycle(): unsigned short
+ setTimePerCycle(in val: unsigned short)
+ writeToSDCard(in timeStamp: string, in occlusionComplete: boolean, in occlusionPressure: unsigned short, in sys: unsigned short, in map: unsigned short, in dia: unsigned short, in interruptOcclusion: boolean)
+ getID(): string
+ startInitSD()

Timer

+ setTimeStamp()
+ getTimeStamp(): Time
+ countdown(in totalTime: unsigned short)
+ stopWatch()
+ displayTimer(): string
+ getTimerStatus(): boolean
+ setTimerStatus(in val: boolean)
+ timeToString(): string