GUI

Display

initDisplay()
ClearAreaDisp()
initConditioning()
initOcclution()
initSetup()
moveSquare()
updateConditioning()
updateOcclusion()
updateSetup()
getNoCycles()
setNoCycles()
updateTimeLeft()
updateNoOfCycles()
updateStopWatchTime()

Button

readModeSwitch()
startStopConditioning()
btPressed()
startStopOcclution()
changer()
selector()

Logic

DigitalFiltering

averagingZeroGroupDelay()

BPAlgorithm

calculateMAP()
calculateSYS()
calculateDIA()

Senarios

bloodPressure()
occlusiontrainung()
occlusiontrainung()

MemoryParser

GetNoOfCycles()
setNoOfCycles()
getTimePerCycle()
setTimePerCycle()
writeToSDCard()
getID()
startInitSD()

Timer

setTimeStamp()
getTimeStamp()
countdown()
stopWatch()
displayTimer()
getTimerStatus()
setTimerStatus()
timeToString()

Data

PressureControl

runMotor()
runValve()
turnMotorOn()
turnMotorOff()
turnValveOn()
turnValveOff()

ExternalMemory

initializeSD()
generateRandomNumber()
checkFilesSD()
writeToSDCard()
createFileTemplate()
getFilename()

InternalMemory

writeToEEPROM()
readFromEEPROM()

PressureSampeling

getCuffPressure()
runningPeakDetect()

Utilities

rawToMmHg()
mmHgToRaw()

Libraries

+Arduino
+EEPROM
+SD
+SPI
+DS1302
+Adafruit_GFX
+Adafruit_ILI9340