ECGanalyzer

ECGanalyzer
+ ECGanalyzer(parent : QWidget*, flags : Qt::WFlags)
+ ~ ECGanalyzer()

RPeaksModule
+ RPeaksModule()
+ *runModule(: const ECGSignalChannel&, : const ECGInfo&, : ECGRs&)*

RPeaksDetector
+ RPeaksDetector()
+ ~ RPeaksDetector()
+ runModule(: const ECGSignalChannel&, : const ECGInfo&, : ECGRs&)
+ setParams(: ParametersTypes&)
+ detectRPeaks() : bool

HRV1Analyzer
+ HRV1Analyzer()
+ ~ HRV1Analyzer()
+ runModule(: const ECGRs&, : ECGHRV1&)
+ setParams(: ParametersTypes&)

ECGHRT
+ offset : int
+ rr : QVector< QPointF >
+ ts : QLine
+ ECGHRT()
+ ~ ECGHRT()

ECGHRVDFA
+ ECGHRVDFA()
+ ~ ECGHRVDFA()
+ GetDfa_x() : OtherSignal
+ GetDfa_y() : OtherSignal
+ getTable()

ECGSignal
+ channel_one : ECGSignalChannel
+ channel_two : ECGSignalChannel
+ setSize(n : size_t)

**«typedef»
ECGSignalChannel**

HRV1Module
+ HRV1Module()
+ *runModule(: const ECGRs&, : ECGHRV1&)*

-hrv1Data

ECGHRV1
+ RR_avg : double
+ RR_stddev : double
+ SDNN : double
+ RMSSD : double
+ NN50 : double
+ pNN50 : double
+ SDANN : double
+ SDANN_index : double
+ SDSD : double
+ TP : double
+ HF : double
+ LF : double
+ VLF : double
+ ULF : double
+ LFHF : double
+ freqency : OtherSignal
+ power : OtherSignal

**«typedef»
IntSignal**

ECGHRV2
+ SD1 : double
+ SD2 : double
+ TINN : double
+ ECGHRV2()
+ ~ ECGHRV2()
+ GetHistogram_x() : IntSignal
+ GetHistogram_y() : IntSignal
+ GetPoincare_x() : IntSignal
+ GetPoincare_y() : IntSignal
+ GetTriple_index_x() : double
+ GetTriple_index_y() : double

ECGClasses
+ ECGClasses()
+ ~ ECGClasses()
+ getClasses() : std::vector< QRSClass * >&

ECGInfo
+ channel_one : ECGChannelInfo
+ channel_two : ECGChannelInfo

ECGChannelInfo
+ filename : string
+ description : string
+ signal_resolution : int
+ zero_signal : int
+ gain : double
+ nr_samples : int
+ frequency : int
+ range : int
+ signal_duration : unsigned int
+ sampleToTime(sample : int) : string

ECGController
+ ecg_info : ECGInfo
+ raw_signal : ECGSignal
+ filtered_signal : ECGSignalChannel
+ r_peaks_data : ECGRs
+ waves_data : ECGWaves
+ hrv1_data : ECGHRV1
+ hrv2_data : ECGHRV2
+ hrv_dfa_data : ECGHRVDFA
+ classes_data : ECGClasses
+ st_data : ECGST
+ twave_data : ECGTWave
+ hrt_data : ECGHRT
+ ECGController()
+ ~ ECGController()
+ readFile(filename : string) : bool
+ setParamsECGBaseline(params : ParametersTypes&)
+ setParamsRPeaks(params : ParametersTypes&)
+ setParamsnWaves(params : ParametersTypes&)
+ setParamsHRV1(params : ParametersTypes&)
+ setParamsHRV2(params : ParametersTypes&)
+ setParamsHRVDFA(params : ParametersTypes&)
+ setParamsQRSClass(params : ParametersTypes&)
+ setParamsSTInterval(params : ParametersTypes&)
+ setParamsTwaveAlt(params : ParametersTypes&)
+ setParamsHRT(params : ParametersTypes&)
+ rerunAnalysis(statusUpdate : std::function< void (std :: string) >, analysisComplete : std::function< void ( ) >)
+ runECGBaseline()
+ runRPeaks()
+ runWaves()
+ runHRV1()
+ runHRV2()
+ runHRVDFA()
+ runQRSClass()
+ runSTInterval()
+ runTwaveAlt()
+ runHRT()

ECGST
+ ECGST()
+ ~ ECGST()
+ getIntervals() : const std::vector< Interval >&
+ getEpisodes() : const std::vector< Episode >&
+ getIntervalAt(: int) : const Interval&
+ getEpisodeAt(: int) : const Episode&
+ getIntervalBeginAndEnd(: int) : std::pair< int, int >
+ getEpisodeBeginAndEnd(: int) : std::pair< int, int >

ECGTWave
+ ECGTWave()
+ ~ ECGTWave()

ECGWaves
+ ECGWaves()
+ ~ ECGWaves()
+ setSize(n : size_t)
+ setQrsOnset(rs : IntSignal)
+ setQrsEnd(rs : IntSignal)
+ setTend(rs : IntSignal)
+ setPonset(rs : IntSignal)
+ setPend(rs : IntSignal)
+ GetP_end() : IntSignal
+ GetP_onset() : IntSignal
+ GetQRS_end() : IntSignal
+ GetQRS_onset() : IntSignal
+ GetT_end() : IntSignal

HRTModule
+ HRTModule()
+ *runModule(: const ECGWaves&, : const ECGRs&, : const ECGSignalChannel&, : const ECGInfo&, : ECGHRT&)*

GlobalInterface
+ GlobalInterface()
+ *setParams(: ParametersTypes&)*

BaselineRemoval
+ BaselineRemoval()
+ ~ BaselineRemoval()
+ runModule(: const ECGSignal&, : const ECGInfo&, : ECGSignalChannel&)
+ setParams(: ParametersTypes&)
+ movingAverageBaselineRemoval(inputSignal : const ECGSignal&, outputSignal : ECGSignalChannel&, span : int)
+ calculateAvgValueOfNeighbours(signal : gsl_vector*, currentIndex : int, span : int) : double

new_class_1
+ STAnalysis()
+ runModule(: const ECGRs&, : const ECGWaves&, : const ECGSignalChannel&, : const ECGInfo&, : ECGST&)
+ setParams(: ParametersTypes&)
+ ~ STAnalysis()

HRVDFAModule
HRVDFAModule()
+ *runModule(: const ECGRs&, : ECGHRVDFA&)*

HRV2Module
+ HRV2Module()
+ *runModule(: const ECGRs&, : ECGHRV2&)*

STIntervalModule
+ STIntervalModule()
+ *runModule(: const ECGRs&, : const ECGWaves&, : const ECGSignalChannel&, : const ECGInfo&, : ECGST&)*

TWaveAltModule
+ TWaveAltModule()
+ *runModule(: const ECGWaves&, : const ECGSignalChannel&, : ECGInfo&, : ECGTWave&)*