Data Model - Generate Learning Sets

LEARNING SET
+ train_sessions :PREPARED SESSION [0,n] = []
+ valid_sessions :PREPARED SESSION [0,n] = []
+ test_sessions :PREPARED SESSION [0,n] = []

SESSIONS BUFFER
+ Sessions :PREPARED SESSION [0,n] = []

SEGREGATION SYSTEM CONFIGURATION
+ balancing_tollerance :float
+ required_sessions :int
+ messaging_sys_addr :string
+ development_sysy_addr :string
+ test_set_size :float
+ valid_set_size :float
+ required_sessions_for_train :int

DATA BALANCING REPORT
+ focused :int
+ relaxed :int
+ excited :int
+ stressed :int

PREPARED SESSION
+ records :RECORD [0,n]
+ label :LABEL

RECORD
+ alpha :float [0,1]
+ beta :float [0,1]
+ theta :float [0,1]
+ delta :float [0,1]
+ activity :ACTIVITY [0,1]
+ genre :GENRE [0,1]

INPUT COVERAGE REPORT
+ records :RECORD [0,n]

LABEL
+ emotion :EMOTION

<<enumeration>> EMOTION
focused
relaxed
excited
stressed

<<enumeration>> GENRE
pop
classical
rock
disco
workout

<<enumeration>> ACTIVITY
sport
meditation
work
home
relax