

Data Model of Prepare Session



PREPARED SESSION
+ sessionID :UUID + rawSessionID :UUID + speakerID :UUID + featureVectorID :UUID + processedAt :DateTime + missingSamples :Integer + maxMissingSamples :Integer + status :PreparationStatus

RAW SESSION
+ rawSessionID :UUID + speakerID :String + startTime :DateTime + endTime :DateTime + missingSamples :Integer + maxMissingSamples :Integer + status :RawStatus + records :List<Record>

RECORD
+ recordID :UUID + deviceID :String + label :Label + samples :List<Sample> + receivedAt :DateTime

SAMPLE
+ sampleID :UUID + timestamp :DateTime + isMissing :Boolean + isOutlier :Boolean + sampleType :SampleType + value :Double + correctedValue :Double

FEATURE VECTOR
+ featureID :UUID + processedSessionID :UUID + rmse :Double + chroma_stft :Double + spectral_centroid :Double + spectral_bandwidth :Double + rolloff :Double + zcr :Double + mffc1 :Double + mffc2 :Double + mffc3 :Double + mffc4 :Double + mffc5 :Double + mffc6 :Double + mffc7 :Double + mffc8 :Double + mffc9 :Double + mffc10 :Double + mffc11 :Double + mffc12 :Double + mffc13 :Double + mffc14 :Double + mffc15 :Double + mffc16 :Double + mffc17 :Double + mffc18 :Double + mffc19 :Double + mffc20 :Double

LABEL
+ emotion :Emotion + confidence :Double

ANNOTATION
+ psychologistID :UUID + recordID :UUID + label :Label

PROFILE
+ speakerID :UUID + recordID :UUID + age :Integer + gender :String + language :Language

CALENDAR
+ calendarID :UUID + recordID :UUID + activity :String + dayPeriod :String

AUDIO SENSOR
+ audioID :UUID + recordID :UUID + amplitude :Double + duration :Double + samplingRate :Double + F0_mean :Double + F0_std :Double + Energy_mean :Double + Speech_Rate :Double + Pause_Ratio :Double + Jitter :Double + Shimmer :Double + Spectral_Centroid :Double

<<enumeration>> EMOTION
ANGRY HAPPY NEUTRAL SAD SURPRISE

<<enumeration>> LANGUAGE
ENGLISH CHINESE ITALIAN

<<enumeration>> PREPARATION STATUS
READY_FOR_EVALUATION REQUIRES_MANUAL_REVIEW

<<enumeration>> RAW STATUS
VALID DISCARDED

<<enumeration>> SAMPLE TYPE
TimeSeries Static