package com.twitter.visibility.models

import com.twitter.gizmoduck.{thriftscala => t}

import com.twitter.util.Time

import com.twitter.visibility.util.NamingUtils

sealed trait UserLabelValue extends SafetyLabelType {

lazy val name: String = NamingUtils.getFriendlyName(this)

}

case class UserLabel(

id: Long,

createdAt: Time,

createdBy: String,

labelValue: UserLabelValue,

source: Option[LabelSource] = None)

object UserLabelValue extends SafetyLabelType {

private lazy val nameToValueMap: Map[String, UserLabelValue] =

List.map(l => l.name.toLowerCase -> l).toMap

def fromName(name: String): Option[UserLabelValue] = nameToValueMap.get(name.toLowerCase)

private val UnknownThriftUserLabelValue =

t.LabelValue.EnumUnknownLabelValue(UnknownEnumValue)

private lazy val thriftToModelMap: Map[t.LabelValue, UserLabelValue] = Map(

t.LabelValue.Abusive -> Abusive,

t.LabelValue.AbusiveHighRecall -> AbusiveHighRecall,

t.LabelValue.AgathaSpamTopUser -> AgathaSpamTopUser,

t.LabelValue.BirdwatchDisabled -> BirdwatchDisabled,

t.LabelValue.BlinkBad -> BlinkBad,

t.LabelValue.BlinkQuestionable -> BlinkQuestionable,

t.LabelValue.BlinkWorst -> BlinkWorst,

t.LabelValue.Compromised -> Compromised,

t.LabelValue.DelayedRemediation -> DelayedRemediation,

t.LabelValue.DoNotCharge -> DoNotCharge,

t.LabelValue.DoNotAmplify -> DoNotAmplify,

t.LabelValue.DownrankSpamReply -> DownrankSpamReply,

t.LabelValue.DuplicateContent -> DuplicateContent,

t.LabelValue.EngagementSpammer -> EngagementSpammer,

t.LabelValue.EngagementSpammerHighRecall -> EngagementSpammerHighRecall,

t.LabelValue.ExperimentalPfmUser1 -> ExperimentalPfmUser1,

t.LabelValue.ExperimentalPfmUser2 -> ExperimentalPfmUser2,

t.LabelValue.ExperimentalPfmUser3 -> ExperimentalPfmUser3,

t.LabelValue.ExperimentalPfmUser4 -> ExperimentalPfmUser4,

t.LabelValue.ExperimentalSeh1 -> ExperimentalSeh1,

t.LabelValue.ExperimentalSeh2 -> ExperimentalSeh2,

t.LabelValue.ExperimentalSeh3 -> ExperimentalSeh3,

t.LabelValue.ExperimentalSehUser4 -> ExperimentalSehUser4,

t.LabelValue.ExperimentalSehUser5 -> ExperimentalSehUser5,

t.LabelValue.ExperimentalSensitiveIllegal1 -> ExperimentalSensitiveIllegal1,

t.LabelValue.ExperimentalSensitiveIllegal2 -> ExperimentalSensitiveIllegal2,

t.LabelValue.FakeSignupDeferredRemediation -> FakeSignupDeferredRemediation,

t.LabelValue.FakeSignupHoldback -> FakeSignupHoldback,

t.LabelValue.GoreAndViolenceHighPrecision -> GoreAndViolenceHighPrecision,

t.LabelValue.GoreAndViolenceReportedHeuristics -> GoreAndViolenceReportedHeuristics,

t.LabelValue.HealthExperimentation1 -> HealthExperimentation1,

t.LabelValue.HealthExperimentation2 -> HealthExperimentation2,

t.LabelValue.HighRiskVerification -> HighRiskVerification,

t.LabelValue.LikelyIvs -> LikelyIvs,

t.LabelValue.LiveLowQuality -> LiveLowQuality,

t.LabelValue.LowQuality -> LowQuality,

t.LabelValue.LowQualityHighRecall -> LowQualityHighRecall,

t.LabelValue.NotGraduated -> NotGraduated,

t.LabelValue.NotificationSpamHeuristics -> NotificationSpamHeuristics,

t.LabelValue.NsfwAvatarImage -> NsfwAvatarImage,

t.LabelValue.NsfwBannerImage -> NsfwBannerImage,

t.LabelValue.NsfwHighPrecision -> NsfwHighPrecision,

t.LabelValue.NsfwHighRecall -> NsfwHighRecall,

t.LabelValue.NsfwNearPerfect -> NsfwNearPerfect,

t.LabelValue.NsfwReportedHeuristics -> NsfwReportedHeuristics,

t.LabelValue.NsfwSensitive -> NsfwSensitive,

t.LabelValue.NsfwText -> NsfwText,

t.LabelValue.ReadOnly -> ReadOnly,

t.LabelValue.RecentAbuseStrike -> RecentAbuseStrike,

t.LabelValue.RecentMisinfoStrike -> RecentMisinfoStrike,

t.LabelValue.RecentProfileModification -> RecentProfileModification,

t.LabelValue.RecentSuspension -> RecentSuspension,

t.LabelValue.RecommendationsBlacklist -> RecommendationsBlacklist,

t.LabelValue.SearchBlacklist -> SearchBlacklist,

t.LabelValue.SoftReadOnly -> SoftReadOnly,

t.LabelValue.SpamHighRecall -> SpamHighRecall,

t.LabelValue.SpammyUserModelHighPrecision -> SpammyUserModelHighPrecision,

t.LabelValue.StateMediaAccount -> StateMediaAccount,

t.LabelValue.TsViolation -> TsViolation,

t.LabelValue.UnconfirmedEmailSignup -> UnconfirmedEmailSignup,

t.LabelValue.LegalOpsCase -> LegalOpsCase,

t.LabelValue.AutomationHighRecall -> Deprecated,

t.LabelValue.AutomationHighRecallHoldback -> Deprecated,

t.LabelValue.BouncerUserFiltered -> Deprecated,

t.LabelValue.DeprecatedListBannerPdna -> Deprecated,

t.LabelValue.DeprecatedMigration50 -> Deprecated,

t.LabelValue.DmSpammer -> Deprecated,

t.LabelValue.DuplicateContentHoldback -> Deprecated,

t.LabelValue.FakeAccountExperiment -> Deprecated,

t.LabelValue.FakeAccountReadonly -> Deprecated,

t.LabelValue.FakeAccountRecaptcha -> Deprecated,

t.LabelValue.FakeAccountSspc -> Deprecated,

t.LabelValue.FakeAccountVoiceReadonly -> Deprecated,

t.LabelValue.FakeEngagement -> Deprecated,

t.LabelValue.HasBeenSuspended -> Deprecated,

t.LabelValue.HighProfile -> Deprecated,

t.LabelValue.NotificationsSpike -> Deprecated,

t.LabelValue.NsfaProfileHighRecall -> Deprecated,

t.LabelValue.NsfwUserName -> Deprecated,

t.LabelValue.PotentiallyCompromised -> Deprecated,

t.LabelValue.ProfileAdsBlacklist -> Deprecated,

t.LabelValue.RatelimitDms -> Deprecated,

t.LabelValue.RatelimitFavorites -> Deprecated,

t.LabelValue.RatelimitFollows -> Deprecated,

t.LabelValue.RatelimitRetweets -> Deprecated,

t.LabelValue.RatelimitTweets -> Deprecated,

t.LabelValue.RecentCompromised -> Deprecated,

t.LabelValue.RevenueOnlyHsSignal -> Deprecated,

t.LabelValue.SearchBlacklistHoldback -> Deprecated,

t.LabelValue.SpamHighRecallHoldback -> Deprecated,

t.LabelValue.SpamRepeatOffender -> Deprecated,

t.LabelValue.SpammerExperiment -> Deprecated,

t.LabelValue.TrendBlacklist -> Deprecated,

t.LabelValue.VerifiedDeceptiveIdentity -> Deprecated,

t.LabelValue.BrandSafetyNsfaAggregate -> Deprecated,

t.LabelValue.Pcf -> Deprecated,

t.LabelValue.Reserved97 -> Deprecated,

t.LabelValue.Reserved98 -> Deprecated,

t.LabelValue.Reserved99 -> Deprecated,

t.LabelValue.Reserved100 -> Deprecated,

t.LabelValue.Reserved101 -> Deprecated,

t.LabelValue.Reserved102 -> Deprecated,

t.LabelValue.Reserved103 -> Deprecated,

t.LabelValue.Reserved104 -> Deprecated,

t.LabelValue.Reserved105 -> Deprecated,

t.LabelValue.Reserved106 -> Deprecated

)

private lazy val modelToThriftMap: Map[UserLabelValue, t.LabelValue] =

(for ((k, v) <- thriftToModelMap) yield (v, k)) ++ Map(

Deprecated -> t.LabelValue.EnumUnknownLabelValue(DeprecatedEnumValue),

)

case object Abusive extends UserLabelValue

case object AbusiveHighRecall extends UserLabelValue

case object AgathaSpamTopUser extends UserLabelValue

case object BirdwatchDisabled extends UserLabelValue

case object BlinkBad extends UserLabelValue

case object BlinkQuestionable extends UserLabelValue

case object BlinkWorst extends UserLabelValue

case object Compromised extends UserLabelValue

case object DelayedRemediation extends UserLabelValue

case object DoNotAmplify extends UserLabelValue

case object DoNotCharge extends UserLabelValue

case object DownrankSpamReply extends UserLabelValue

case object DuplicateContent extends UserLabelValue

case object EngagementSpammer extends UserLabelValue

case object EngagementSpammerHighRecall extends UserLabelValue

case object ExperimentalPfmUser1 extends UserLabelValue

case object ExperimentalPfmUser2 extends UserLabelValue

case object ExperimentalPfmUser3 extends UserLabelValue

case object ExperimentalPfmUser4 extends UserLabelValue

case object ExperimentalSeh1 extends UserLabelValue

case object ExperimentalSeh2 extends UserLabelValue

case object ExperimentalSeh3 extends UserLabelValue

case object ExperimentalSehUser4 extends UserLabelValue

case object ExperimentalSehUser5 extends UserLabelValue

case object ExperimentalSensitiveIllegal1 extends UserLabelValue

case object ExperimentalSensitiveIllegal2 extends UserLabelValue

case object FakeSignupDeferredRemediation extends UserLabelValue

case object FakeSignupHoldback extends UserLabelValue

case object GoreAndViolenceHighPrecision extends UserLabelValue

case object GoreAndViolenceReportedHeuristics extends UserLabelValue

case object HealthExperimentation1 extends UserLabelValue

case object HealthExperimentation2 extends UserLabelValue

case object HighRiskVerification extends UserLabelValue

case object LegalOpsCase extends UserLabelValue

case object LikelyIvs extends UserLabelValue

case object LiveLowQuality extends UserLabelValue

case object LowQuality extends UserLabelValue

case object LowQualityHighRecall extends UserLabelValue

case object NotificationSpamHeuristics extends UserLabelValue

case object NotGraduated extends UserLabelValue

case object NsfwAvatarImage extends UserLabelValue

case object NsfwBannerImage extends UserLabelValue

case object NsfwHighPrecision extends UserLabelValue

case object NsfwHighRecall extends UserLabelValue

case object NsfwNearPerfect extends UserLabelValue

case object NsfwReportedHeuristics extends UserLabelValue

case object NsfwSensitive extends UserLabelValue

case object NsfwText extends UserLabelValue

case object ReadOnly extends UserLabelValue

case object RecentAbuseStrike extends UserLabelValue

case object RecentProfileModification extends UserLabelValue

case object RecentMisinfoStrike extends UserLabelValue

case object RecentSuspension extends UserLabelValue

case object RecommendationsBlacklist extends UserLabelValue

case object SearchBlacklist extends UserLabelValue

case object SoftReadOnly extends UserLabelValue

case object SpamHighRecall extends UserLabelValue

case object SpammyUserModelHighPrecision extends UserLabelValue

case object StateMediaAccount extends UserLabelValue

case object TsViolation extends UserLabelValue

case object UnconfirmedEmailSignup extends UserLabelValue

case object Deprecated extends UserLabelValue

case object Unknown extends UserLabelValue

def fromThrift(userLabelValue: t.LabelValue): UserLabelValue = {

thriftToModelMap.get(userLabelValue) match {

case Some(safetyLabelType) => safetyLabelType

case \_ =>

userLabelValue match {

case t.LabelValue.EnumUnknownLabelValue(DeprecatedEnumValue) => Deprecated

case \_ =>

Unknown

}

}

}

def toThrift(userLabelValue: UserLabelValue): t.LabelValue =

modelToThriftMap.get((userLabelValue)).getOrElse(UnknownThriftUserLabelValue)

val List: List[UserLabelValue] = t.LabelValue.list.map(fromThrift)

}

object UserLabel {

def fromThrift(userLabel: t.Label): UserLabel = {

UserLabel(

userLabel.id,

Time.fromMilliseconds(userLabel.createdAtMsec),

userLabel.byUser,

UserLabelValue.fromThrift(userLabel.labelValue),

userLabel.source.flatMap(LabelSource.fromString)

)

}

def toThrift(userLabel: UserLabel): t.Label = {

t.Label(

userLabel.id,

UserLabelValue.toThrift(userLabel.labelValue),

userLabel.createdAt.inMillis,

byUser = userLabel.createdBy,

source = userLabel.source.map(\_.name)

)

}

}