package com.twitter.visibility.rules

import com.twitter.visibility.features.AuthorScreenName

import com.twitter.visibility.features.Feature

import com.twitter.visibility.features.FeatureMap

import com.twitter.visibility.features.RawQuery

import com.twitter.visibility.models.SafetyLevel

import com.twitter.visibility.models.SafetyLevel.\_

object RuleBase {

val DeprecatedFeatures: Seq[Feature[\_]] =

Seq(AuthorScreenName, RawQuery)

val RuleMap: Map[SafetyLevel, VisibilityPolicy] = Map(

AccessInternalPromotedContent -> InternalPromotedContentPolicy,

AllSubscribedLists -> AllSubscribedListsPolicy,

AdsBusinessSettings -> AdsBusinessSettingsPolicy,

AdsCampaign -> AdsCampaignPolicy,

AdsManager -> AdsManagerPolicy,

AdsReportingDashboard -> AdsReportingDashboardPolicy,

Appeals -> AppealsPolicy,

ArticleTweetTimeline -> ArticleTweetTimelinePolicy,

BaseQig -> BaseQigPolicy,

BirdwatchNoteAuthor -> BirdwatchNoteAuthorPolicy,

BirdwatchNoteTweetsTimeline -> BirdwatchNoteTweetsTimelinePolicy,

BirdwatchNeedsYourHelpNotifications -> BirdwatchNeedsYourHelpNotificationsPolicy,

BlockMuteUsersTimeline -> BlockMuteUsersTimelinePolicy,

BrandSafety -> BrandSafetyPolicy,

CardPollVoting -> CardPollVotingPolicy,

CardsService -> CardsServicePolicy,

Communities -> CommunitiesPolicy,

ContentControlToolInstall -> ContentControlToolInstallPolicy,

ConversationFocalPrehydration -> ConversationFocalPrehydrationPolicy,

ConversationFocalTweet -> ConversationFocalTweetPolicy,

ConversationInjectedTweet -> ConversationInjectedTweetPolicy,

ConversationReply -> ConversationReplyPolicy,

CuratedTrendsRepresentativeTweet -> CuratedTrendsRepresentativeTweetPolicy,

CurationPolicyViolations -> CurationPolicyViolationsPolicy,

FollowingAndFollowersUserList -> FollowingAndFollowersUserListPolicy,

DeprecatedSafetyLevel -> FilterNonePolicy,

DevPlatformGetListTweets -> DevPlatformGetListTweetsPolicy,

DesFollowingAndFollowersUserList -> FollowingAndFollowersUserListPolicy,

DesHomeTimeline -> DESHomeTimelinePolicy,

DesQuoteTweetTimeline -> DesQuoteTweetTimelinePolicy,

DesRealtime -> DESRealtimePolicy,

DesRealtimeSpamEnrichment -> DESRealtimeSpamEnrichmentPolicy,

DesRealtimeTweetFilter -> DESRealtimeSpamEnrichmentPolicy,

DesRetweetingUsers -> DESRetweetingUsersPolicy,

DesTweetDetail -> DesTweetDetailPolicy,

DesTweetLikingUsers -> DESTweetLikingUsersPolicy,

DesUserBookmarks -> DESUserBookmarksPolicy,

DesUserLikedTweets -> DESUserLikedTweetsPolicy,

DesUserMentions -> DESUserMentionsPolicy,

DesUserTweets -> DESUserTweetsPolicy,

DevPlatformComplianceStream -> DevPlatformComplianceStreamPolicy,

DirectMessages -> DirectMessagesPolicy,

DirectMessagesConversationList -> DirectMessagesConversationListPolicy,

DirectMessagesConversationTimeline -> DirectMessagesConversationTimelinePolicy,

DirectMessagesInbox -> DirectMessagesInboxPolicy,

DirectMessagesMutedUsers -> DirectMessagesMutedUsersPolicy,

DirectMessagesPinned -> DirectMessagesPinnedPolicy,

DirectMessagesSearch -> DirectMessagesSearchPolicy,

EditHistoryTimeline -> EditHistoryTimelinePolicy,

ElevatedQuoteTweetTimeline -> ElevatedQuoteTweetTimelinePolicy,

EmbeddedTweet -> EmbeddedTweetsPolicy,

EmbedsPublicInterestNotice -> EmbedsPublicInterestNoticePolicy,

EmbedTweetMarkup -> EmbedTweetMarkupPolicy,

WritePathLimitedActionsEnforcement -> WritePathLimitedActionsEnforcementPolicy,

FilterAll -> FilterAllPolicy,

FilterAllPlaceholder -> FilterAllPolicy,

FilterNone -> FilterNonePolicy,

FilterDefault -> FilterDefaultPolicy,

FollowedTopicsTimeline -> FollowedTopicsTimelinePolicy,

FollowerConnections -> FollowerConnectionsPolicy,

ForDevelopmentOnly -> ForDevelopmentOnlyPolicy,

FriendsFollowingList -> FriendsFollowingListPolicy,

GraphqlDefault -> GraphqlDefaultPolicy,

GryphonDecksAndColumns -> GryphonDecksAndColumnsSharingPolicy,

HumanizationNudge -> HumanizationNudgePolicy,

KitchenSinkDevelopment -> KitchenSinkDevelopmentPolicy,

ListHeader -> ListHeaderPolicy,

ListMemberships -> ListMembershipsPolicy,

ListOwnerships -> ListOwnershipsPolicy,

ListRecommendations -> ListRecommendationsPolicy,

ListSearch -> ListSearchPolicy,

ListSubscriptions -> ListSubscriptionsPolicy,

LivePipelineEngagementCounts -> LivePipelineEngagementCountsPolicy,

LiveVideoTimeline -> LiveVideoTimelinePolicy,

MagicRecs -> MagicRecsPolicy,

MagicRecsAggressive -> MagicRecsAggressivePolicy,

MagicRecsAggressiveV2 -> MagicRecsAggressiveV2Policy,

MagicRecsV2 -> MagicRecsV2Policy,

Minimal -> MinimalPolicy,

ModeratedTweetsTimeline -> ModeratedTweetsTimelinePolicy,

Moments -> MomentsPolicy,

NearbyTimeline -> NearbyTimelinePolicy,

NewUserExperience -> NewUserExperiencePolicy,

NotificationsIbis -> NotificationsIbisPolicy,

NotificationsPlatform -> NotificationsPlatformPolicy,

NotificationsPlatformPush -> NotificationsPlatformPushPolicy,

NotificationsQig -> NotificationsQigPolicy,

NotificationsRead -> NotificationsReadPolicy,

NotificationsTimelineDeviceFollow -> NotificationsTimelineDeviceFollowPolicy,

NotificationsWrite -> NotificationsWritePolicy,

NotificationsWriterV2 -> NotificationsWriterV2Policy,

NotificationsWriterTweetHydrator -> NotificationsWriterTweetHydratorPolicy,

ProfileMixerMedia -> ProfileMixerMediaPolicy,

ProfileMixerFavorites -> ProfileMixerFavoritesPolicy,

QuickPromoteTweetEligibility -> QuickPromoteTweetEligibilityPolicy,

QuoteTweetTimeline -> QuoteTweetTimelinePolicy,

QuotedTweetRules -> QuotedTweetRulesPolicy,

Recommendations -> RecommendationsPolicy,

RecosVideo -> RecosVideoPolicy,

RecosWritePath -> RecosWritePathPolicy,

RepliesGrouping -> RepliesGroupingPolicy,

ReportCenter -> ReportCenterPolicy,

ReturningUserExperience -> ReturningUserExperiencePolicy,

ReturningUserExperienceFocalTweet -> ReturningUserExperienceFocalTweetPolicy,

Revenue -> RevenuePolicy,

RitoActionedTweetTimeline -> RitoActionedTweetTimelinePolicy,

SearchHydration -> SearchHydrationPolicy,

SearchMixerSrpMinimal -> SearchMixerSrpMinimalPolicy,

SearchMixerSrpStrict -> SearchMixerSrpStrictPolicy,

SearchLatest -> SearchLatestPolicy,

SearchPeopleSrp -> SearchPeopleSrpPolicy,

SearchPeopleTypeahead -> SearchPeopleTypeaheadPolicy,

SearchPhoto -> SearchPhotoPolicy,

SearchTrendTakeoverPromotedTweet -> SearchTrendTakeoverPromotedTweetPolicy,

SearchTop -> SearchTopPolicy,

SearchTopQig -> SearchTopQigPolicy,

SearchVideo -> SearchVideoPolicy,

SearchBlenderUserRules -> SearchBlenderUserRulesPolicy,

SearchLatestUserRules -> SearchLatestUserRulesPolicy,

ShoppingManagerSpyMode -> ShoppingManagerSpyModePolicy,

SignalsReactions -> SignalsReactionsPolicy,

SignalsTweetReactingUsers -> SignalsTweetReactingUsersPolicy,

SocialProof -> SocialProofPolicy,

SoftInterventionPivot -> SoftInterventionPivotPolicy,

SpaceFleetline -> SpaceFleetlinePolicy,

SpaceHomeTimelineUpranking -> SpaceHomeTimelineUprankingPolicy,

SpaceJoinScreen -> SpaceJoinScreenPolicy,

SpaceNotifications -> SpaceNotificationsPolicy,

Spaces -> SpacesPolicy,

SpacesParticipants -> SpacesParticipantsPolicy,

SpacesSellerApplicationStatus -> SpacesSellerApplicationStatusPolicy,

SpacesSharing -> SpacesSharingPolicy,

SpaceTweetAvatarHomeTimeline -> SpaceTweetAvatarHomeTimelinePolicy,

StickersTimeline -> StickersTimelinePolicy,

StratoExtLimitedEngagements -> StratoExtLimitedEngagementsPolicy,

StreamServices -> StreamServicesPolicy,

SuperFollowerConnections -> SuperFollowerConnectionsPolicy,

SuperLike -> SuperLikePolicy,

Test -> TestPolicy,

TimelineContentControls -> TimelineContentControlsPolicy,

TimelineConversations -> TimelineConversationsPolicy,

TimelineConversationsDownranking -> TimelineConversationsDownrankingPolicy,

TimelineConversationsDownrankingMinimal -> TimelineConversationsDownrankingMinimalPolicy,

TimelineFollowingActivity -> TimelineFollowingActivityPolicy,

TimelineHome -> TimelineHomePolicy,

TimelineHomeCommunities -> TimelineHomeCommunitiesPolicy,

TimelineHomeHydration -> TimelineHomeHydrationPolicy,

TimelineHomePromotedHydration -> TimelineHomePromotedHydrationPolicy,

TimelineHomeRecommendations -> TimelineHomeRecommendationsPolicy,

TimelineHomeTopicFollowRecommendations -> TimelineHomeTopicFollowRecommendationsPolicy,

TimelineScorer -> TimelineScorerPolicy,

TopicsLandingPageTopicRecommendations -> TopicsLandingPageTopicRecommendationsPolicy,

ExploreRecommendations -> ExploreRecommendationsPolicy,

TimelineInjection -> TimelineInjectionPolicy,

TimelineMentions -> TimelineMentionsPolicy,

TimelineModeratedTweetsHydration -> TimelineModeratedTweetsHydrationPolicy,

TimelineHomeLatest -> TimelineHomeLatestPolicy,

TimelineLikedBy -> TimelineLikedByPolicy,

TimelineRetweetedBy -> TimelineRetweetedByPolicy,

TimelineSuperLikedBy -> TimelineSuperLikedByPolicy,

TimelineBookmark -> TimelineBookmarkPolicy,

TimelineMedia -> TimelineMediaPolicy,

TimelineReactiveBlending -> TimelineReactiveBlendingPolicy,

TimelineFavorites -> TimelineFavoritesPolicy,

TimelineFavoritesSelfView -> TimelineFavoritesSelfViewPolicy,

TimelineLists -> TimelineListsPolicy,

TimelineProfile -> TimelineProfilePolicy,

TimelineProfileAll -> TimelineProfileAllPolicy,

TimelineProfileSpaces -> TimelineProfileSpacesPolicy,

TimelineProfileSuperFollows -> TimelineProfileSuperFollowsPolicy,

TimelineFocalTweet -> TimelineFocalTweetPolicy,

Tombstoning -> TombstoningPolicy,

TopicRecommendations -> TopicRecommendationsPolicy,

TrendsRepresentativeTweet -> TrendsRepresentativeTweetPolicy,

TrustedFriendsUserList -> TrustedFriendsUserListPolicy,

TwitterDelegateUserList -> TwitterDelegateUserListPolicy,

TweetDetail -> TweetDetailPolicy,

TweetDetailNonToo -> TweetDetailNonTooPolicy,

TweetDetailWithInjectionsHydration -> TweetDetailWithInjectionsHydrationPolicy,

TweetEngagers -> TweetEngagersPolicy,

TweetReplyNudge -> TweetReplyNudgePolicy,

TweetScopedTimeline -> TweetScopedTimelinePolicy,

TweetWritesApi -> TweetWritesApiPolicy,

TwitterArticleCompose -> TwitterArticleComposePolicy,

TwitterArticleProfileTab -> TwitterArticleProfileTabPolicy,

TwitterArticleRead -> TwitterArticleReadPolicy,

UserMilestoneRecommendation -> UserMilestoneRecommendationPolicy,

UserProfileHeader -> UserProfileHeaderPolicy,

UserScopedTimeline -> UserScopedTimelinePolicy,

UserSearchSrp -> UserSearchSrpPolicy,

UserSearchTypeahead -> UserSearchTypeaheadPolicy,

UserSelfViewOnly -> UserSelfViewOnlyPolicy,

UserSettings -> UserSettingsPolicy,

VideoAds -> VideoAdsPolicy,

ZipbirdConsumerArchives -> ZipbirdConsumerArchivesPolicy,

TweetAward -> TweetAwardPolicy,

)

def removeUnusedFeaturesFromFeatureMap(

featureMap: FeatureMap,

rules: Seq[Rule],

): FeatureMap = {

val featuresInSafetyLevel: Set[Feature[\_]] =

RuleBase.getFeaturesForRules(rules)

val filteredMap = featureMap.map.filterKeys(featuresInSafetyLevel.contains(\_))

new FeatureMap(filteredMap, featureMap.constantMap)

}

def getFeaturesForRules(rules: Seq[Rule]): Set[Feature[\_]] = {

rules.flatMap { r: Rule =>

r.featureDependencies ++ r.optionalFeatureDependencies

}.toSet

}

def hasTweetRules(safetyLevel: SafetyLevel): Boolean = RuleMap(safetyLevel).tweetRules.nonEmpty

def hasUserRules(safetyLevel: SafetyLevel): Boolean = RuleMap(safetyLevel).userRules.nonEmpty

def hasCardRules(safetyLevel: SafetyLevel): Boolean = RuleMap(safetyLevel).cardRules.nonEmpty

def hasDmRules(safetyLevel: SafetyLevel): Boolean = RuleMap(safetyLevel).dmRules.nonEmpty

def hasDmConversationRules(safetyLevel: SafetyLevel): Boolean = RuleMap(

safetyLevel).dmConversationRules.nonEmpty

def hasDmEventRules(safetyLevel: SafetyLevel): Boolean = RuleMap(

safetyLevel).dmEventRules.nonEmpty

}