package com.twitter.cr\_mixer.module.similarity\_engine

import com.google.inject.Provides

import com.twitter.cr\_mixer.model.ModuleNames

import com.twitter.cr\_mixer.model.TweetWithCandidateGenerationInfo

import com.twitter.cr\_mixer.model.TweetWithScore

import com.twitter.cr\_mixer.config.TimeoutConfig

import com.twitter.cr\_mixer.similarity\_engine.HnswANNSimilarityEngine

import com.twitter.cr\_mixer.similarity\_engine.SimClustersANNSimilarityEngine

import com.twitter.cr\_mixer.similarity\_engine.SimilarityEngine.GatingConfig

import com.twitter.cr\_mixer.similarity\_engine.SimilarityEngine.SimilarityEngineConfig

import com.twitter.cr\_mixer.similarity\_engine.StandardSimilarityEngine

import com.twitter.cr\_mixer.similarity\_engine.TweetBasedQigSimilarityEngine

import com.twitter.cr\_mixer.similarity\_engine.TweetBasedUnifiedSimilarityEngine

import com.twitter.cr\_mixer.similarity\_engine.TweetBasedUserTweetGraphSimilarityEngine

import com.twitter.cr\_mixer.similarity\_engine.TweetBasedUserVideoGraphSimilarityEngine

import com.twitter.cr\_mixer.thriftscala.SimilarityEngineType

import com.twitter.finagle.stats.StatsReceiver

import com.twitter.inject.TwitterModule

import com.twitter.storehaus.ReadableStore

import javax.inject.Named

import javax.inject.Singleton

object TweetBasedUnifiedSimilarityEngineModule extends TwitterModule {

@Provides

@Singleton

@Named(ModuleNames.TweetBasedUnifiedSimilarityEngine)

def providesTweetBasedUnifiedSimilarityEngine(

@Named(ModuleNames.TweetBasedUserTweetGraphSimilarityEngine) tweetBasedUserTweetGraphSimilarityEngine: StandardSimilarityEngine[

TweetBasedUserTweetGraphSimilarityEngine.Query,

TweetWithScore

],

@Named(ModuleNames.TweetBasedUserVideoGraphSimilarityEngine) tweetBasedUserVideoGraphSimilarityEngine: StandardSimilarityEngine[

TweetBasedUserVideoGraphSimilarityEngine.Query,

TweetWithScore

],

@Named(ModuleNames.TweetBasedTwHINANNSimilarityEngine)

tweetBasedTwHINANNSimilarityEngine: HnswANNSimilarityEngine,

@Named(ModuleNames.TweetBasedQigSimilarityEngine) tweetBasedQigSimilarityEngine: StandardSimilarityEngine[

TweetBasedQigSimilarityEngine.Query,

TweetWithScore

],

@Named(ModuleNames.SimClustersANNSimilarityEngine)

simClustersANNSimilarityEngine: StandardSimilarityEngine[

SimClustersANNSimilarityEngine.Query,

TweetWithScore

],

timeoutConfig: TimeoutConfig,

statsReceiver: StatsReceiver,

): StandardSimilarityEngine[

TweetBasedUnifiedSimilarityEngine.Query,

TweetWithCandidateGenerationInfo

] = {

val underlyingStore: ReadableStore[TweetBasedUnifiedSimilarityEngine.Query, Seq[

TweetWithCandidateGenerationInfo

]] = TweetBasedUnifiedSimilarityEngine(

tweetBasedUserTweetGraphSimilarityEngine,

tweetBasedUserVideoGraphSimilarityEngine,

simClustersANNSimilarityEngine,

tweetBasedQigSimilarityEngine,

tweetBasedTwHINANNSimilarityEngine,

statsReceiver

)

new StandardSimilarityEngine[

TweetBasedUnifiedSimilarityEngine.Query,

TweetWithCandidateGenerationInfo

](

implementingStore = underlyingStore,

identifier = SimilarityEngineType.TweetBasedUnifiedSimilarityEngine,

globalStats = statsReceiver,

engineConfig = SimilarityEngineConfig(

timeout = timeoutConfig.similarityEngineTimeout,

gatingConfig = GatingConfig(

deciderConfig = None,

enableFeatureSwitch = None

)

)

)

}

}