package com.twitter.follow\_recommendations.common.candidate\_sources.sims\_expansion

import com.google.inject.Singleton

import com.twitter.follow\_recommendations.common.candidate\_sources.sims.SwitchingSimsSource

import com.twitter.follow\_recommendations.common.clients.real\_time\_real\_graph.RealTimeRealGraphClient

import com.twitter.follow\_recommendations.common.models.CandidateUser

import com.twitter.hermit.model.Algorithm

import com.twitter.product\_mixer.core.model.common.identifier.CandidateSourceIdentifier

import com.twitter.product\_mixer.core.model.marshalling.request.HasClientContext

import com.twitter.stitch.Stitch

import com.twitter.timelines.configapi.HasParams

import javax.inject.Inject

@Singleton

class RecentStrongEngagementDirectFollowSimilarUsersSource @Inject() (

realTimeRealGraphClient: RealTimeRealGraphClient,

switchingSimsSource: SwitchingSimsSource)

extends SimsExpansionBasedCandidateSource[HasClientContext with HasParams](

switchingSimsSource) {

val identifier = RecentStrongEngagementDirectFollowSimilarUsersSource.Identifier

override def firstDegreeNodes(

request: HasClientContext with HasParams

): Stitch[Seq[CandidateUser]] = request.getOptionalUserId

.map { userId =>

realTimeRealGraphClient

.getUsersRecentlyEngagedWith(

userId,

RealTimeRealGraphClient.StrongEngagementScoreMap,

includeDirectFollowCandidates = true,

includeNonDirectFollowCandidates = false

).map(\_.take(RecentStrongEngagementDirectFollowSimilarUsersSource.MaxFirstDegreeNodes))

}.getOrElse(Stitch.Nil)

override def maxSecondaryDegreeNodes(request: HasClientContext with HasParams): Int = Int.MaxValue

override def maxResults(request: HasClientContext with HasParams): Int =

RecentStrongEngagementDirectFollowSimilarUsersSource.MaxResults

override def scoreCandidate(sourceScore: Double, similarToScore: Double): Double = {

sourceScore \* similarToScore

}

override def calibrateDivisor(req: HasClientContext with HasParams): Double = 1.0d

}

object RecentStrongEngagementDirectFollowSimilarUsersSource {

val Identifier = CandidateSourceIdentifier(Algorithm.RecentStrongEngagementSimilarUser.toString)

val MaxFirstDegreeNodes = 10

val MaxResults = 200

}