package com.twitter.cr\_mixer.param

import com.twitter.finagle.stats.NullStatsReceiver

import com.twitter.logging.Logger

import com.twitter.timelines.configapi.BaseConfig

import com.twitter.timelines.configapi.BaseConfigBuilder

import com.twitter.timelines.configapi.FSBoundedParam

import com.twitter.timelines.configapi.FSName

import com.twitter.timelines.configapi.FSParam

import com.twitter.timelines.configapi.FeatureSwitchOverrideUtil

import com.twitter.timelines.configapi.Param

object TweetBasedCandidateGenerationParams {

// Source params. Not being used. It is always set to true in prod

object EnableSourceParam

extends FSParam[Boolean](

name = "tweet\_based\_candidate\_generation\_enable\_source",

default = false

)

// UTG params

object EnableUTGParam

extends FSParam[Boolean](

name = "tweet\_based\_candidate\_generation\_enable\_utg",

default = true

)

// SimClusters params

object EnableSimClustersANNParam

extends FSParam[Boolean](

name = "tweet\_based\_candidate\_generation\_enable\_simclusters",

default = true

)

// Experimental SimClusters ANN params

object EnableExperimentalSimClustersANNParam

extends FSParam[Boolean](

name = "tweet\_based\_candidate\_generation\_enable\_experimental\_simclusters\_ann",

default = false

)

// SimClusters ANN cluster 1 params

object EnableSimClustersANN1Param

extends FSParam[Boolean](

name = "tweet\_based\_candidate\_generation\_enable\_simclusters\_ann\_1",

default = false

)

// SimClusters ANN cluster 2 params

object EnableSimClustersANN2Param

extends FSParam[Boolean](

name = "tweet\_based\_candidate\_generation\_enable\_simclusters\_ann\_2",

default = false

)

// SimClusters ANN cluster 3 params

object EnableSimClustersANN3Param

extends FSParam[Boolean](

name = "tweet\_based\_candidate\_generation\_enable\_simclusters\_ann\_3",

default = false

)

// SimClusters ANN cluster 3 params

object EnableSimClustersANN5Param

extends FSParam[Boolean](

name = "tweet\_based\_candidate\_generation\_enable\_simclusters\_ann\_5",

default = false

)

// SimClusters ANN cluster 4 params

object EnableSimClustersANN4Param

extends FSParam[Boolean](

name = "tweet\_based\_candidate\_generation\_enable\_simclusters\_ann\_4",

default = false

)

// TwHIN params

object EnableTwHINParam

extends FSParam[Boolean](

name = "tweet\_based\_candidate\_generation\_enable\_twhin",

default = false

)

// QIG params

object EnableQigSimilarTweetsParam

extends FSParam[Boolean](

name = "tweet\_based\_candidate\_generation\_enable\_qig\_similar\_tweets",

default = false

)

object QigMaxNumSimilarTweetsParam

extends FSBoundedParam[Int](

name = "tweet\_based\_candidate\_generation\_qig\_max\_num\_similar\_tweets",

default = 100,

min = 10,

max = 100

)

// UVG params

object EnableUVGParam

extends FSParam[Boolean](

name = "tweet\_based\_candidate\_generation\_enable\_uvg",

default = false

)

// UAG params

object EnableUAGParam

extends FSParam[Boolean](

name = "tweet\_based\_candidate\_generation\_enable\_uag",

default = false

)

// Filter params

object SimClustersMinScoreParam

extends FSBoundedParam[Double](

name = "tweet\_based\_candidate\_generation\_filter\_simclusters\_min\_score",

default = 0.5,

min = 0.0,

max = 1.0

)

// for learning DDG that has a higher threshold for video based SANN

object SimClustersVideoBasedMinScoreParam

extends FSBoundedParam[Double](

name = "tweet\_based\_candidate\_generation\_filter\_simclusters\_video\_based\_min\_score",

default = 0.5,

min = 0.0,

max = 1.0

)

val AllParams: Seq[Param[\_] with FSName] = Seq(

EnableSourceParam,

EnableTwHINParam,

EnableQigSimilarTweetsParam,

EnableUTGParam,

EnableUVGParam,

EnableUAGParam,

EnableSimClustersANNParam,

EnableSimClustersANN1Param,

EnableSimClustersANN2Param,

EnableSimClustersANN3Param,

EnableSimClustersANN5Param,

EnableSimClustersANN4Param,

EnableExperimentalSimClustersANNParam,

SimClustersMinScoreParam,

SimClustersVideoBasedMinScoreParam,

QigMaxNumSimilarTweetsParam,

)

lazy val config: BaseConfig = {

val booleanOverrides = FeatureSwitchOverrideUtil.getBooleanFSOverrides(

EnableSourceParam,

EnableTwHINParam,

EnableQigSimilarTweetsParam,

EnableUTGParam,

EnableUVGParam,

EnableUAGParam,

EnableSimClustersANNParam,

EnableSimClustersANN1Param,

EnableSimClustersANN2Param,

EnableSimClustersANN3Param,

EnableSimClustersANN5Param,

EnableSimClustersANN4Param,

EnableExperimentalSimClustersANNParam,

)

val doubleOverrides =

FeatureSwitchOverrideUtil.getBoundedDoubleFSOverrides(

SimClustersMinScoreParam,

SimClustersVideoBasedMinScoreParam)

val enumOverrides = FeatureSwitchOverrideUtil.getEnumFSOverrides(

NullStatsReceiver,

Logger(getClass),

)

val intOverrides = FeatureSwitchOverrideUtil.getBoundedIntFSOverrides(

QigMaxNumSimilarTweetsParam

)

BaseConfigBuilder()

.set(booleanOverrides: \_\*)

.set(doubleOverrides: \_\*)

.set(enumOverrides: \_\*)

.set(intOverrides: \_\*)

.build()

}

}