package com.twitter.search.earlybird\_root;

import javax.inject.Inject;

import javax.inject.Named;

import javax.inject.Singleton;

import com.twitter.finagle.Service;

import com.twitter.finagle.mtls.authorization.server.MtlsServerSessionTrackerFilter;

import com.twitter.search.common.clientstats.FinagleClientStatsFilter;

import com.twitter.search.common.root.LoggingFilter;

import com.twitter.search.common.root.RequestValidationFilter;

import com.twitter.search.earlybird.thrift.EarlybirdRequest;

import com.twitter.search.earlybird.thrift.EarlybirdResponse;

import com.twitter.search.earlybird.thrift.EarlybirdService;

import com.twitter.search.earlybird.thrift.EarlybirdStatusResponse;

import com.twitter.search.earlybird\_root.caching.FacetsCacheFilter;

import com.twitter.search.earlybird\_root.caching.RecencyCacheFilter;

import com.twitter.search.earlybird\_root.caching.RelevanceCacheFilter;

import com.twitter.search.earlybird\_root.caching.RelevanceZeroResultsCacheFilter;

import com.twitter.search.earlybird\_root.caching.StrictRecencyCacheFilter;

import com.twitter.search.earlybird\_root.caching.TermStatsCacheFilter;

import com.twitter.search.earlybird\_root.caching.TopTweetsCacheFilter;

import com.twitter.search.earlybird\_root.common.EarlybirdRequestContext;

import com.twitter.search.earlybird\_root.filters.ClientIdTrackingFilter;

import com.twitter.search.earlybird\_root.filters.ClientRequestTimeFilter;

import com.twitter.search.earlybird\_root.filters.DeadlineTimeoutStatsFilter;

import com.twitter.search.earlybird\_root.filters.DropAllProtectedOperatorFilter;

import com.twitter.search.earlybird\_root.filters.EarlybirdFeatureSchemaAnnotateFilter;

import com.twitter.search.earlybird\_root.filters.InitializeRequestContextFilter;

import com.twitter.search.earlybird\_root.filters.MetadataTrackingFilter;

import com.twitter.search.earlybird\_root.filters.NullcastTrackingFilter;

import com.twitter.search.earlybird\_root.filters.PostCacheRequestTypeCountFilter;

import com.twitter.search.earlybird\_root.filters.PreCacheRequestTypeCountFilter;

import com.twitter.search.earlybird\_root.filters.QueryLangStatFilter;

import com.twitter.search.earlybird\_root.filters.QueryOperatorStatFilter;

import com.twitter.search.earlybird\_root.filters.RequestResultStatsFilter;

import com.twitter.search.earlybird\_root.filters.ResponseCodeStatFilter;

import com.twitter.search.earlybird\_root.filters.SearchPayloadSizeLocalContextFilter;

import com.twitter.search.earlybird\_root.filters.StratoAttributionClientIdFilter;

import com.twitter.search.earlybird\_root.filters.TopLevelExceptionHandlingFilter;

import com.twitter.util.Future;

@Singleton

public class RealtimeRootService implements EarlybirdService.ServiceIface {

private final Service<EarlybirdRequest, EarlybirdResponse> allFiltersAndService;

@Inject

public RealtimeRootService(

TopLevelExceptionHandlingFilter topLevelExceptionHandlingFilter,

ResponseCodeStatFilter responseCodeStatFilter,

LoggingFilter<EarlybirdRequest, EarlybirdResponse> loggingFilter,

RequestValidationFilter<EarlybirdRequest, EarlybirdResponse> validationFilter,

MtlsServerSessionTrackerFilter<EarlybirdRequest, EarlybirdResponse> mtlsFilter,

FinagleClientStatsFilter<EarlybirdRequest, EarlybirdResponse> finagleStatsFilter,

InitializeFilter initializeFilter,

InitializeRequestContextFilter initializeRequestContextFilter,

QueryLangStatFilter queryLangStatFilter,

DropAllProtectedOperatorFilter dropAllProtectedOperatorFilter,

QueryOperatorStatFilter queryOperatorStatFilter,

RequestResultStatsFilter requestResultStatsFilter,

PreCacheRequestTypeCountFilter preCacheCountFilter,

RecencyCacheFilter recencyCacheFilter,

RelevanceCacheFilter relevanceCacheFilter,

RelevanceZeroResultsCacheFilter relevanceZeroResultsCacheFilter,

StrictRecencyCacheFilter strictRecencyCacheFilter,

FacetsCacheFilter facetsCacheFilter,

TermStatsCacheFilter termStatsCacheFilter,

TopTweetsCacheFilter topTweetsCacheFilter,

PostCacheRequestTypeCountFilter postCacheCountFilter,

ClientIdTrackingFilter clientIdTrackingFilter,

MetadataTrackingFilter metadataTrackingFilter,

NullcastTrackingFilter nullcastTrackingFilter,

ClientRequestTimeFilter clientRequestTimeFilter,

DeadlineTimeoutStatsFilter deadlineTimeoutStatsFilter,

EarlybirdFeatureSchemaAnnotateFilter featureSchemaAnnotateFilter,

SearchPayloadSizeLocalContextFilter searchPayloadSizeLocalContextFilter,

@Named(ProtectedScatterGatherModule.NAMED\_SCATTER\_GATHER\_SERVICE)

Service<EarlybirdRequestContext, EarlybirdResponse> scatterGatherService,

StratoAttributionClientIdFilter stratoAttributionClientIdFilter) {

this.allFiltersAndService =

loggingFilter

.andThen(topLevelExceptionHandlingFilter)

.andThen(stratoAttributionClientIdFilter)

.andThen(clientRequestTimeFilter)

.andThen(searchPayloadSizeLocalContextFilter)

.andThen(responseCodeStatFilter)

.andThen(requestResultStatsFilter)

.andThen(validationFilter)

.andThen(mtlsFilter)

.andThen(finagleStatsFilter)

.andThen(clientIdTrackingFilter)

.andThen(metadataTrackingFilter)

.andThen(initializeFilter)

.andThen(initializeRequestContextFilter)

.andThen(deadlineTimeoutStatsFilter)

.andThen(queryLangStatFilter)

.andThen(nullcastTrackingFilter)

.andThen(dropAllProtectedOperatorFilter)

.andThen(queryOperatorStatFilter)

.andThen(preCacheCountFilter)

.andThen(recencyCacheFilter)

.andThen(relevanceCacheFilter)

.andThen(relevanceZeroResultsCacheFilter)

.andThen(strictRecencyCacheFilter)

.andThen(facetsCacheFilter)

.andThen(termStatsCacheFilter)

.andThen(topTweetsCacheFilter)

.andThen(postCacheCountFilter)

.andThen(featureSchemaAnnotateFilter)

.andThen(scatterGatherService);

}

@Override

public Future<String> getName() {

return Future.value("realtime root");

}

@Override

public Future<EarlybirdStatusResponse> getStatus() {

throw new UnsupportedOperationException("not supported");

}

@Override

public Future<EarlybirdResponse> search(EarlybirdRequest request) {

return allFiltersAndService.apply(request);

}

}