package com.twitter.product\_mixer.core.functional\_component.transformer

import com.twitter.product\_mixer.core.feature.Feature

import com.twitter.product\_mixer.core.feature.featuremap.FeatureMap

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

/\*\*

\* [[FeatureTransformer]] allow you to populate a [[com.twitter.product\_mixer.core.feature.Feature]]s

\* value which is already available or can be derived without making an RPC.

\*

\* A [[FeatureTransformer]] transforms a given [[Inputs]] into a [[FeatureMap]].

\* The transformer must specify which [[com.twitter.product\_mixer.core.feature.Feature]]s it will populate using the `features` field

\* and the returned [[FeatureMap]] must always have the specified [[com.twitter.product\_mixer.core.feature.Feature]]s populated.

\*

\* @note Unlike [[com.twitter.product\_mixer.core.functional\_component.feature\_hydrator.FeatureHydrator]] implementations,

\* an exception thrown in a [[FeatureTransformer]] will not be added to the [[FeatureMap]] and will instead be

\* bubble up to the calling pipeline's [[com.twitter.product\_mixer.core.pipeline.pipeline\_failure.PipelineFailureClassifier]].

\*/

trait FeatureTransformer[-Inputs] extends Transformer[Inputs, FeatureMap] {

def features: Set[Feature[\_, \_]]

override val identifier: TransformerIdentifier

/\*\* Hydrates a [[FeatureMap]] for a given [[Inputs]] \*/

override def transform(input: Inputs): FeatureMap

}