StreamAPI

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Stream NPI is used to process colloctions of objects.

A stream in sawa is a sequence of objects that supports various mothods which can be pipelized to produce the desired grapely.

I stream API is a way to express and process colloctions of objects.

E enable us to partour operations like to thoway, morphia, reducing and sorting.

Why Stream API! Enhances the usability of sava Collection types making if easily to iterate and perform faces against each element in the collection * Supports sequential and populled aggregate operations. of stream API allows developers process doug in a declarative way. Key painty: i Stream defines many operations, which as be grouped in two categories

* Intermediate operations. * Terminal operations

x stream oporations that can be connected are

called informediate: operations.

* They can be connected together because their return type is a Stream.

* operations that close a stream pipeline and called terminal operations.

* Intermediate genations are "large

Intermediate Operations:

* When an opoution on a stream hurther produces another stream as a resultine call it an intermediate operation. * As entermediate operations return another stream as a greenly, they can be chained together to form a pipeline of operation. operations doesn't give and nesself.

They just convert one stream to another its earn. stream. * For example: map(), filter (), distinct(),

could(), limit(), skip()

Teaminal opocations:

& the operations which retwen non-stream values such as perimitive or object are called forminal operations.

* Furthermore, unlike informaliate perations, we can't chain terem together.

* They produce the end result. * once a touninal operation completes, the

stream is no longer valid.

* Hence, we can't use that stream agelin.

* For example: for Each(), to Array (1, reduce (), oblect (), min (), max (), count (), any Match () all Match (), noneMatch (), find Froistri, find Any ()

* stream processing consults of a societ of zoo or more informediate operations followed by a fearmined operation. returns a new trach intermediate operation returns a new

stream. The forminal operation setwing some thing other than a stream.