SOFTWARE ARCHITECTURES

Future [1]

A Future is the result of asynchronous computation.

Future<V>   V might be; Integer, String, etc.

isDone()   Returns **true** if this task completed.

isCancelled()   Returns **true** if this task was cancelled before it completed normally.

get()   Waits if necessary for the computation to complete, and then **retrieves its result**.

[1] https://docs.oracle.com/javase/7/docs/api/java/util/concurrent/Future.html

Executor Service [2] and Executors [3]

An Executor that provides methods to manage termination and methods that can produce a Future for tracking progress of one or more asynchronous tasks.

newSingleThreadExecutor()

Creates an Executor that uses a single worker thread operating off an unbounded queue.

submit()

Submits a value-returning task for execution and returns a Future representing the pending results of the task. The Future's get method will return the task's result upon successful completion.

[2] https://docs.oracle.com/javase/7/docs/api/java/util/concurrent/ExecutorService.html

[3] https://docs.oracle.com/javase/7/docs/api/java/util/concurrent/Executors.html