# Task Engine One pager

An engine where it can create a task, track for task to complete then perform clean-up if required.

## Assumptions

1. All task should be idempotent.

## Requirements

1. A single task can create multiple sub tasks.
2. Each subtask can report their success or failure to the parent task.
3. Parent task should have capability to retry the failed sub task by creating new sub task if the failure is retriable failure.
4. Parent task should have capability to give progress of complete job.
5. Engine should have capability of setting timeouts for each tasks/subtask.
6. Engine should have capability of cancellation of task.