G.P.U.P – Generic Platform for Utilizing Processes

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• Insights: The platform enables extract various insights out of the ‘graph’ of components: routes, circles, transitive dependencies etc.

• Execution: The platform enables running various tasks on the graphs nodes. It follows the Open-Close principle and can be extended with various tasks in the future.

Tasks can be, for example: compilation task ; testing task.

Execution is done in parallel to maximize efficiency of processing, Execution can be done on part of the graph, and\or only on the failed node from former execution etc.

• Distribution: The platform architecture enables distributed (remote) workers to connect to it and execute work on their private resources.

How its work?

There are 2 apps one for the admin and one for the worker.

The admin can upload graph by xml file and to interrogator the graph for: routes, circles, transitive dependencies etc. In addition, the admin can make new Task for the workers.

The worker can choose an available task and work on it. His work done in parallel (with threads pool).

Diagram

Description automatically generated