The dynamic composition of Web service can be modeled as a service oriented workflow. However during the execution of this workflow, potential failure can occur on-the-fly which make down the composed Web service. To avoid downtime of the overall process in execution, some recovery methods are required. The objective of this paper is to present a state of the art of the most known failures and the more important recovery methods that can be used to recover the execution workflow in failure. Also, it proposes an implementation of our proposed architecture to ensure a better QoS of the composed Web service. This architecture has the privilege to detect and recover dynamically failure according to the user’s requirements and/or the availability of main critical resources.
An Approach to Support Monitoring and Recovery of BPEL Processes at Runtime

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