Composite State Machine Miner: Discovering and Exploring Multi-perspective Processes

The Composite State Machine Miner aims to discover state-based models for processes where different facets, or perspectives, of the process can be identified. In this paper we describe an interactive process discovery tool that can be used to discover and explore state-based models for such multi-perspective processes:

For more detailed information on CSM Miner refer to the paper:

<http://www.processmining.org/_media/blogs/pubs2016/compositestatemachineminer.pdf>

The software should be modelled based on the lines of the implementation present in the Prom Plugin for CSM Miner.

The design documents for all milestones should be considered to portray the following information:

1. Should contain details of the softwares
2. Mention the interfaces, data structures and APIs
3. Flow charts and low level design

The software should be developed as a web service:

1. The state machine groups must be configurable – (Should be configurable at run time by the user as implemented in Prom Plugin)
2. interactive which means when you click on a state or transition a state machine, the states and transitions in the other models that co-occur with the selected element are highlighted.

Input reference log is - BPI Challenge 2012