Flowstate™ Editor & Graph Display

What

• A simple, pleasing web user interface that generates an internal business data-centric “state machine” network (DCN).

• Server side generation a basic BPMN file and/or equivalent internal task-centric network (TCN) from the DCN.

• Ability to display both generated networks in graphical form, perhaps in real time, using any common layout tool (Graphviz, yEd) using appropriate notations.

Why

Business people use task-centric diagrams like BPMN to manage people and understand automation points in a process. Yet, complex service processes are more easily expressed in data-centric terms as the data usually defines the function and constraints of the process. The concept is described at www.stateflow.cloud

Outcome

This exercise defines the DCN to TCN flow of data use case that results in the regular redisplay of the two diagrams while editing the DCN.

Out of scope (for now) is the reverse use case, in which a change to the TCN updates or augments the DCN with revised or placeholder nodes.

Benefits

We can provide written requirements for most, but not all, of the DCN Web Interface and prototype algorithm definitions for the transformations. So a little requirements elicitation shall need to be planned.

This project is a small part of a much larger requirements set for a startup business and we are looking for like-minded, process-aware and competent developers to join our team in various paid capacities from full time to contract.

Conditions

Any outcomes produced by the student team under and within the framework of the Software Project and any transferable intellectual property rights related thereto, including all the economic rights of the author and rights to protect intellectual property are transferred to 8020 BPM Limited from the moment of creation.

8020 BPM grants the University of Tartu full rights for internal educational use, to demonstrate, update and extend these components with the inclusion of these terms and access for 8020 BPM to the code repository.

Ideally, we’d prefer the code developed in a common, easily maintainable form such as Python and related libraries like Flask, FastAPI, NetworkX for the server side, and Svelte or React for the client side.

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