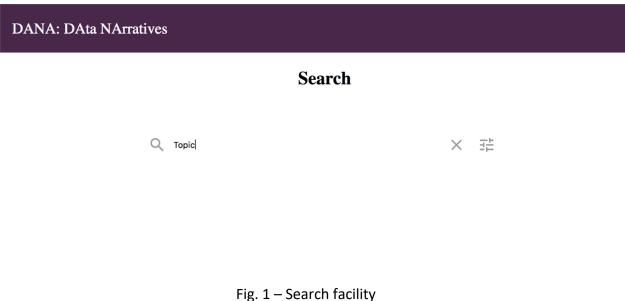
# Project – Integrating Various Sub-Projects of DANA

#### Introduction

This is a document that outlines the proposed project to integrate various sub-projects of DANA. Namely, it will link the narrative generation program with the narrative visualization, and also with a search facility for the templates. At a later stage, this system will also be linked with the editing/feedback facility for generated narratives.

## Storyboard

1. The entry into the system is via the search facility. Users can search for templates (workflows). The search parameters could be the names, or some parts of the metadata used to describe the templates.



The system returns one or more results that match the search parameters.

2. Users can then browse through the results. The results also display some relevant information about the templates, to make them easily identifiable. Additionally, all the execution results associated with the template should be displayed (a single template can have different executions, with different parameters). Users then select a particular execution result for which the narratives need to be generated. This is done by clicking on the arrow button next to it.

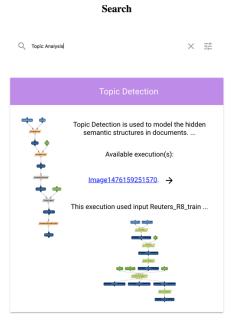


Fig. 2 – Workflow template returned as result

3. Clicking on the button to generate narratives loads a page where all the different narrative types are generated and displayed. The narratives are also linked to the graphical visualization (a previously implemented sub-project). Clicking on parts of the narratives highlights the related parts of the graph and vice versa.

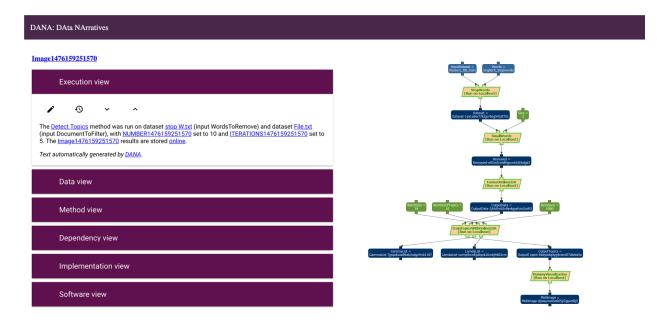


Fig. 3 – Narratives linked to visualization

4. As an extension to the above integration, the facility for providing feedback to the generated narratives (a previously implemented sub-project) will also be added to the system

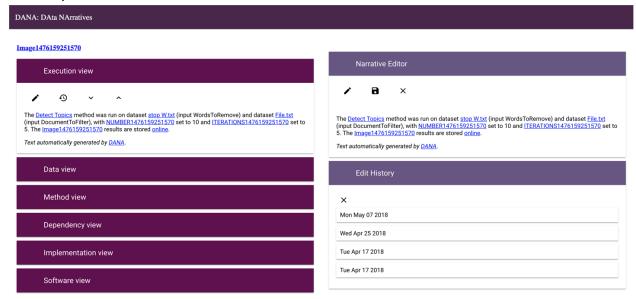


Fig. 4 – Feedback facility

### **Technical Details**

The project will be implemented in the Polymer framework, primarily to create modules as reusable components that can be integrated with other projects. Existing non-Polymer elements will be rewritten using the Polymer framework or be contained in a Polymer wrapper.

Other features related to implementation include –

- 1. Ability to download the knowledge graph.
- 2. Adding schema.org descriptions to the web pages.
- 3. Coupling with other sources of information, such as OntoSoft.

### Research

- 1. Tightly coupling knowledge graph to the text using RDFa.
- 2. Exploring other types of narratives that can be generated.