ContextMiner: A Tool for Digital Library Curator

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Figure 1: ContextMiner: rank lists of relevant items based on different criteria

The Vidarch Project\textsuperscript{1} aims to develop policies and tools that help video curators discover and add contextual elements that will help future generations not only find but also make sense of video content.

In order to help the curator in fetching and evaluating information for its relevance, we have developed a prototype system called ContextMiner\textsuperscript{2}. This web-based tool, implemented primarily using PHP and MySQL, helps the curator in looking for information on the Web or in specialized databases, compile it, and finally store in the repository. A typical flow of the ContextMiner system is given below.

1. The curator asks the system to grab a record from some specialized database. In our case, this is the Prelinger collection.
2. The record that the curator requested is displayed. Now the curator can ask the system to find similar items from some other sources.
3. At present, the ContextMiner system searches in OpenVideo collection to find the similar items. It performs four independent searches.
4. Four independent rank lists are displayed with their IDs and titles (Figure 1).
5. The curator can select any record from any of the lists and view full details of it. The original record obtained from Prelinger collection is also shown for ready comparison.
6. Alternatively, the curator can issue a search query to specialized databases (e.g., Prelinger or OpenVideo), specialized websites (e.g., YouTube), or the entire Web. The results are brought back and presented as a rank list according to their relevance.
7. Selecting a result brings up a form with various metadata and context fields (Figure 2). ContextMiner fills in as much information as possible. The curator can add additional information and/or edit the information provided by ContextMiner as required.
8. When the form is submitted, a new record is added in the repository with an ID assigned automatically. The ContextMiner system also has an interface for viewing and updating the records in the repository.

\textsuperscript{1}http://www.ils.unc.edu/vidarch/

\textsuperscript{2}Available from http://www.ils.unc.edu/vidarch/

Figure 2: ContextMiner: form for filling in various metadata and context fields. Many fields are automatically filled in.

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