Using Faceted Classification To Provide Structure For Information Architecture

Challenges

- Imperfect knowledge representation
  - Real human knowledge is by nature, incomplete, imprecise, and ambiguous.
- Multiple access points
  - Digital resources are often rich in subject matters (such as image analysis), but searching across them is "more" or less than easy; the user often ends up with both too many and too few documents.
- Complexity
  - Real knowledge is complex, abstract, and changing. Changing documents are subject to both local and global changes.

Lessons from Libraries

- Knowledge Organization
  - SD: the shape of knowledge is often achieved through the way documents are structured. The systems used to arrange documents for access and retrieval are subject to local and global changes. When designing new systems, it is important to consider the shape of the knowledge that is stored.
- Knowledge Representation
  - SD: the meaning of the documents themselves is not always readily apparent. The systems used to arrange documents for access and retrieval must consider the shape of the knowledge that is stored.

Methods

4.8 User-Centered Design

User-centered design is a humanistic approach to information architecture. It requires the use of user observations from the "real" world to guide us in our design. We used these ideas, along with observations from the "real" world, to develop a system.

Faceted Classification

S. U. R. Information processing is a system of dealing documents using a system of faceted index. A faceted classification system is one in which the shapes of the classification are described in terms of two variables, the context and the content. The context is the shape of the classification at a given time, and the content is the shape of the classification at any time.

Content Management

Our prototype can provide the following services: indexing, abstracting, and cataloging, to create a list of documents and thus aid users in finding what they are looking for.

Requirements

We are developing a system to discover how the faceted classification system can be used as a tool for managing, describing, organizing, and providing access to documents. The system will be designed to allow for dynamic querying and full-text searching.

Bibliographic Control & Access

Bibliographic control is the process by which documents are authorized and made available to users. It is not a simple task, and the information is not always reliable. The system must be able to cope with the variability of input and output.

Faceted Architecture

We used a combination of user-centered design and faceted classification to manage, describe, organize, and provide access to documents. The system is integrated with a faceted classification system, which provides a broad range of cataloging and searching functions.

Content & Context

We have developed a system that allows the user to discover how the faceted classification system can be used as a tool for managing, describing, organizing, and providing access to documents.

What’s next

1. Prototype: new document will be added
2. Debugging: content and functionality will be added
3. Testing: system will be tested
4. Deployment: system will be deployed

Implementation

Context & Content

The prototype is built around a web-based interface with faceted classification to manage, describe, organize, and provide access to documents.

Technology

The system is built with J2EE, JSP, and XML. It uses a variety of technologies to manage, describe, organize, and provide access to documents.

Thesaurus & Query Processing

The system is designed to discover how the faceted classification system can be used as a tool for managing, describing, organizing, and providing access to documents.

Sub-Facets

The system is designed to discover how the faceted classification system can be used as a tool for managing, describing, organizing, and providing access to documents.

References

- "Faceted Classification To Provide Structure For Information Architecture" (Author: William J. Louie, William Williams, & Eric L. Maddox)
- "Implementing a Faceted Classification System" (Author: Allen D. Vasconcelos)
- "Evolution of Faceted Classification" (Author: James Berman)

Further Reading

- "Evolution of Faceted Classification" (Author: James Berman)
- "Implementing a Faceted Classification System" (Author: Allen D. Vasconcelos)
- "Bibliographic Control & Access" (Author: William J. Louie, William Williams, & Eric L. Maddox)

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