Overview of Service / Solution

FUJITSU Education Solution Museum Solution

Specification

FUJITSU’s museum solution provides tools for facilitating integrated management of various types of information on museum collections using databases and creates linkage among pieces of accumulated information to fully support a variety of museum operations.

Acceptance
- Donated and deposited materials
- Purchased materials
- Manufactured and collected materials

Management of information on collected materials
- Meta information on collections
- Book information
- Publications and printed materials

Management of media files
- Image files
- Multimedia files
- Document files

Storage and loans
- Loans to other museums
- Repairs of materials
- Exhibitions

Information on collections

Dictionary information

Minimum System Requirements

<table>
<thead>
<tr>
<th>Server</th>
<th>Client</th>
</tr>
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<tbody>
<tr>
<td>OS</td>
<td>Red Hat Enterprise Linux 6 or Windows Server 2008R2/2012</td>
</tr>
<tr>
<td>CPU</td>
<td>Xeon 2GHz (2 core)</td>
</tr>
<tr>
<td>Memory</td>
<td>2GB</td>
</tr>
<tr>
<td>Requirement Software</td>
<td>Oracle or PostgreSQL</td>
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Contact

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Collection Management System as a center, this solution can provide the cooperation with publication and education, support of researches, support of museum management.

For curators and researchers

Support for surveys and research

Collection management system

Fujitsu’s museum solution facilitates integrated management of collections and specimens (along with their management information), improves the efficiency of collection, storage, and management operations, and promotes knowledge sharing.

Research support system

The system for curators and researchers provides support for surveys and research in order to increase the number of research opportunities and to improve research efficiency.

Exhibition information system (learning support for visitors)

This system provides high-performance services for visitors in order to stimulate their intellects.

Internet information service system (for Internet users)

This system is designed to contribute to local communities, to invite Internet users to visit the museums, and to promote exchanges with educational institutions and other museums.

Museum management support system

This system supports museum management by providing a wide range of services, including management of conference room reservations and museum visitor counts.

Benefits

Fujitsu’s solution is widely used in Japan for museum collection management. This solution enables flexible management of digital information on various materials, including cultural properties, specimens, and works of art. It helps museums collect and preserve materials, provides support for curators in conducting surveys and research, and greatly contributes to exhibitions and education for museum visitors.

Many museums are unable to effectively use their valuable collections of materials due to a lack of proper management systems. As a result, they often face difficulties in carrying out their educational missions.

Insufficient system management

- Different ledgers exist for different operations, leading to dispersion and duplication of information.
- Museums are flooded with diverse types of data, including written documents and digital camera photos.
- There are many things known only to the staff member in charge, and when he or she is on long-term leave or retires, it becomes difficult to properly respond to inquiries from the public.
- Due to limited exhibition space, it is impossible to exhibit all materials. As a result, museums have difficulties in conveying the value of their precious materials.

Life cycle under proper collection management

- The system enables flexible, integrated management of digital information on all materials owned by a museum, making it possible to share information among staff members and to appropriately respond to inquiries. Information is managed under an integrated system and can thus be easily released inside the museum or over the Internet. The system enables museums not only to make effective use of non-exhibited materials but also to increase their numbers of visitors from both inside and outside Japan.
- The system opens up new possibilities for museums, such as system collaboration with related organizations.

Fujitsu’s collection management system increases the value of collected materials and helps distribute information to the general public, thus supporting museums in carrying out their missions and helping increase the numbers of visitors from both inside and outside Japan.

Why Fujitsu?

1. System developed using all of our know-how acquired through museum system implementation

   - Fujitsu’s solution provides tools for facilitating integrated management of all operations, including acceptance of materials, management of documents and photographs, and handling of loans, repairs, and exhibitions. Settings for input items can be freely adjusted to accommodate changing system implementation.
   - The system is operated via a web browser using Unicode as the character encoding. Therefore, a wide range of languages are supported, including old-style Chinese characters. Scientific names, nomenclator names, author names, document titles, and book titles can be registered, searched, and accessed via their source language.
   - Beyond still images, various types of data are supported, including video data, Microsoft Office documents, and PDF files. Therefore, reference materials and related papers can be linked to photographs of the original materials and managed together with such materials.
   - The system has a variety of features that support inputting data efficiently without error.
   - Data access rights can be specified in detail per user to ensure safety and security of system operation.

2. Search system designed for massive collections of materials

   - The system includes a high-speed search engine, Interstage Shunsaku Data Manager*, as a standard feature and maintains responsiveness even when searching large amounts of materials or performing complex searches. (*Japanese Patent No.: 2002-222194).
   - Flexible searches can be performed, including searches across different categories of materials, as well as free-word full-text searches, hierarchical searches, and searches with complex conditions.

3. Security measures and effective displays for public exhibitions

   - Digital watermarks (museum names, control IDs, etc.) are embedded in images displayed to the public to prevent unauthorized use of data.
   - Museums can develop their own original designs or screen flows.
   - Materials can be displayed in different ways based on their characteristics (digital data, high-resolution, 3D, etc.)
   - Settings for publicly exhibited materials can be configured per material or per display medium.

Case Studies

A. National museum (No. of materials: 1.3 million)

1. High-speed search of Japan’s largest number of museum materials and categories
2. Per-item settings for every item in 60 categories configured in accordance with curators’ requests
3. Strict control of users’ data access rights to ensure data security

B. Prefectural museums (No. of materials: 0.4 million)

1. Integrated management of all materials from multiple museums in the prefecture
2. Improved user convenience through a feature that allows for easy global search of information on all cultural properties in the prefecture

C. District museum (No. of materials: 50,000)

1. Implementation of systems for management and public display of folk-cultural materials (everyday goods, etc.) and historical materials
2. Use of a high-resolution display system for enlarged display of old maps and other materials in order to support research
3. An exhibition system that includes quizzes and reasoning games

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