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ATTENTION: Mr. Bai Hongkuan, Principal

**Research Study Block24
Solution of library,
Based on Cloud Computing**

INTRODUCTORY SUMMARY

Dear principal, we are now do our research study, and the name of my paper is ---Public Libraries in Cloud Computing Environment. Aiming at the library information service, cloud computing technology for information service provides the infrastructure to a new type of information resources sharing.

The reasons I want to do this research are:

a. The cloud computing performance price by virtue of its strong network distributed computing ability and infinitely extended data storage capacity.

b. Cloud computing has the inherent ability of sharing information resources, so the application of cloud computing research on the sharing of information resources under the condition becomes the key research projects in the academic library.

My paper analysis:

a. Cloud computing and information resources sharing
b. Public library environment
c. existence question and pointed out the type, structure, model
d. The integration of information resources of Public Library under the cloud computing environment sharing.
e. A solution of Public Library information resources sharing based on cloud computing development.

It will have benefits on service integration and reduction of cost, and it can first use in school library system. At the same time, the development of mobile communication technology makes Public Library gradually become industrial, personalized, and universal.

Characteristic in Public Library in China

We know that our country has problems on information resources sharing, the mainly reason leads to current lack of information sharing model is the difference in living standards, economic development restrictions. In addition, there is a big difference in our public libraries in the geographical distribution, collection of information resources and sharing level.

Overall, open network sharing mode is the ideal way to our public library information resources sharing, that all the country's public libraries to be integrated across the network to achieve national sharing of information resources. Through analyzing the current library information resource sharing model, we can group them into three modes:

- level sharing model,
- Co-sharing model,
- Open sharing model.

Sharing Mode

Public library information resources sharing platform needs to adopt three modes:

- PaaS
- SaaS
- IaaS

At the same time, it should establish appropriate service architecture, forming a scientific and complete information resource sharing model, making the national information sharing level continues to increase.

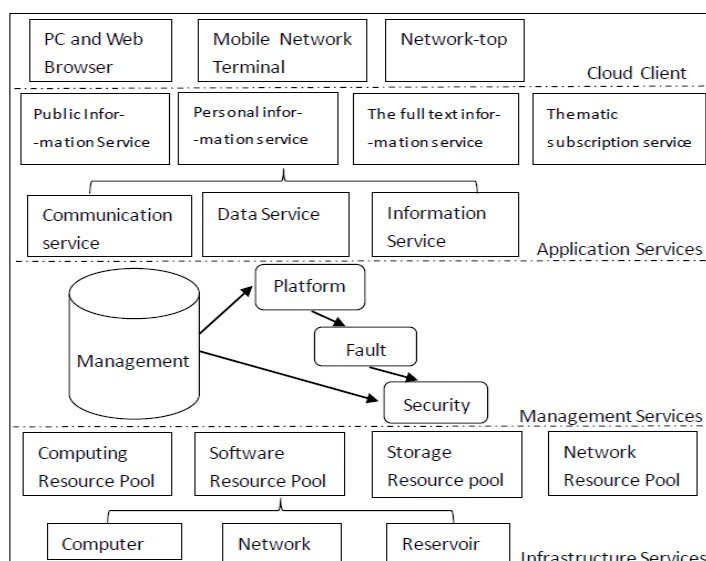1. **Types of information resources sharing**

Public Library information resources sharing technology model is mainly based on the public libraries information resources service for basis, the sharing of resources integrated for goal.

It actively expands the sharing approach, making efforts to achieve a platform which is:

- Low-cost,
- Standardized high,
- Strong adaptability,
- Large expansion capacity.

2. **Architecture of information resource sharing**

Cloud-based information sharing system architecture model is shown in the following picture.

Integration of information resources

Public Library information resources integration under cloud computing environment break through the information resources of information barriers between public libraries, and establish an integrated, open, win-sharing model. In this way, it can achieve maximum leverage of information resources using. It is an important component of public library information resources sharing platform.

    a. The traditional way of information resources integration is storing the resources in public libraries in one centrally place, standardizing the entire sequence.

    b. During the integration of information resources, cloud computing, storage and service capabilities of public libraries platform have also been organic integrated.

    c. A directory index has set up after the integration of information resources, which formed a new information resource.

    d. It was those information resource index that being the basis of knowledge-service model, and it can provide more knowledge for readers catering to their demands.

Operating mechanism

Public Library information resource sharing mechanism under cloud computing environments including:

a. Organizational framework

b. Management mechanisms

c. Standards

d. Data security

At the same time cloud computing environment sharing information resources required large-scale capital investment, so we must establish a reasonable cost accounting cloud computing, statistical information, storage statistics, computational statistics and a series of accounting standards in order to maintain service support the system operate normally.

Conclusion

The public library building and information sharing cloud computing technology will be more closely integrated, which can bring us into a new information sharing era, as I hope in my paper above.

Moreover, in order to ensure effective implementation of the Public Library Information Resource Sharing Construction, the paper continues research on Public Library information resources shared organizational framework, operation and management mechanism, standards, data security.

I will meet you to discuss our study and any follow-up you may wish us to do.

Sincerely,

Jingyi Xue
Research Group Leader