

information availability, integrity, consistency, and security.

(3) Through the multi-level index policy, to implement the unified organization and management of multimedia teaching resources. Through information retrieval rights management and unified information access interface, to achieve safe and fast information retrieval.

(4) Design information channel component, support information queue, information publish, and information subscribe event driven, to provide concurrency information distribution capability.

(5) For multimedia information processing, use information fusion technology, to integrate teaching resources, to achieve multimedia courseware online making and sharing.

3.4 Intelligent service management design

Education cloud system aims at providing intelligent recommendation teaching service available at any time, at any where, and based on user demand. General education cloud architecture use knowledge component management, user behavior analysis, information aggregation and unified user interface, to provide intelligent cloud learning mode.

(1)Implementation teaching material's component management based on knowledge point, provide processing functions of knowledge material component's development, management, combination, and arrangement, support continual expanding of teaching resources, to facilitate the production of multimedia teaching must meet the functional requirements of the courseware teaching.

(2)Extract knowledge components from teaching resources, implement semantic analysis and relevance analysis of knowledge component, classify knowledge components by content aggregation, and then organize the knowledge components automatically.

(3)Establish behavior model of teachers, teaching manager, and cloud learners according to online statistical analysis of their network behavior history data log, and use intelligent fusion technology to achieve push type intelligent service to every kind of educational cloud users.

(4)Provide unified user interface, users can get applications on computer, mobile phone,

PDA, handheld computer or other telecommunication product at any time, at anywhere.

(5)Design comprehensive settlement functions, support multi-user terminal, multiple statistical certification, complete the information cloud learning service maintenance, management, billing, offline backup at the same time, provide a seamless extension of cloud learning support service.

4 Summary

With the development of cloud computing, cloud computing platform will support computer, TV, PDA, mobile phone and other terminal, the obtain of Cloud Applications and services will become more and more convenient, people can get education resources at any time and anywhere.

The general education cloud integrates teaching resources at all the levels of educational institutions, can effectively solve the problem of repeated construction of education resources. And through the development and application of intelligent Cloud technology, learners can achieve individualized teaching accordance with their aptitude. Use virtualization technology, can provide experimental environment to remote learners. All these play important role in extending the distance education connotation, constructing the lifelong education system, and establishing learning society.

5 References

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