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Application Research of DiGG in Teaching Platform

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As one member of web, Digg relies on its unique evaluation mechanism and provides a newly perspective to promote the development in network teaching. This article designs a teaching platform system based on the advantage of Digg and discusses the mechanism of Digg teaching. We need to arouse the subjective initiative of students and help them to utilize various resources for learning services effectively and improve the students' quality comprehensively.

Keywords: Teaching Platform; Data Mining; Structural Design

Introduction of the Digg

Digg

From American Kevin rose founded digg. Com in October 2004, digg slowly steps into people's sight. Initially located in science and technology news of mining; Third revision, in June 2006 from news extended to other categories, after traffic to levitate quickly, then Digg has quickly become the 24th the public site, close to the New York times (19th), easily defeated the fox news, 2010 Digg. Com Alexa ranking was 129th in the world, everyday, more than one million people gathered in Digg, read, comment and "Digging" 4000 messages (http://baike.baidu.com/view/425538.htm.2013-4-13).

Education Digg

Li Jiahou thinks education digg is a large amount of information, dynamic update, online reading "mass education digest". Everyone participates in abstract, shares education information, builds the education think-tank (Zhang, 2007).

Education digging submitted the education information which collected from the Internet in the form of abstract, and the viewer democratically vote to decide the value of each information, attention and valuable information will be screened and recommended to the home page displayed. So education digg can let learners obtain faster education information, and education information is fast channel.

Advantages in Analysis of Digg Application in Teaching

Releasing Teachers Resources and Students Work on Line

In the teaching process, students are required to complete a large number of problem sets, and the process is usually accomplished by teachers for students to work on and acceptance. On the one hand, when there are too many students and works, this pattern will reduce the quality of review inevitably; is also lack of mutual relying and learning; On the other hand, it also goes against the teacher show some good films to students for reference and study. Through structures Digg in the school net-

work platform, the students on campus or off campus can upload their own work and homework, for teachers and other students to read and comment. Teacher can be in any place to read the works of the students, students can read another student's work at any place, which broke through the limit of space and time, it is conducive to students complete work with high quality to some extent. At the same time, teachers cannot regularly upload excellent works and teaching cases, which can provide reference for students, learning and communication.

Implementing the Democratic Participation of Students and Promoting the Common Development between Teachers and Students (Tang, 2010)

Through Digg learning platform, students can upload their own real-time works, papers and other research results for teachers and other students to carry on the review, through extensive absorbing opinions, students can find their own shortcomings, and correct them. Through Digg feature, on the other hand, all the students' resources can be uploaded, letting other users vote and comment on, under the power of group elects that works really good. This process not only can bring power to study hard for the students. At the same time, it also can build enough confidence for the students. From the point of view of teachers, Digg, not only can help them understand the students' interest and the insufficiency, but also can let them know all the students' learning situation and psychological changes, which is conducive to teachers' teaching and educating; on the other hand, because the resources released by the publicity, it also prompted teachers to provide the resources more reasonable and perfect.

Implementing Effective Organization of Resources and Improving Students' Learning Efficiency

A perfect teaching platform is mixed with all kinds of resources, each student's personal situation is different, how to organize teaching to realize their aptitude according to different students, Digg model gives a better solution. Every vote, recommendation, criticism and creation of Students will be recorded automatically by system in Digg platform, and provides resources with certain heat, let t is possible to show resources in

the learning platform. At the same time, through the collection, RSS subscription services, students can reorganize resources into your own Blog, which convenient to manage their concerns and needs of resources, so that it can easily implement resource look up when studying.

Implement Expansion of Student Knowledge Which Is Benefit for Full Scale Development of Student

The thought of the study all the life and full scale development that the educational circle advocates, the good teaching MIS can manifest this mentality. Digg-based teaching MIS model allows the student to act according to their own interest and hobby to create the resources, but it is not only restricted to the resources that the school and teacher issue, through, collects and subscribes the resources of other people to the issues of these extracurricular teacher issue, through, collects and subscribes the resources of other people to the issues of these extracurricular resources, the student can learn the massive extracurricular knowledge, thus developing the aspect of knowledge, making the student don't feel bored when studying will be arid and tasteless.

Implement Promotion of Individual Resources and Enhancing Students' Cognition and Emotion Communication

The school is a society of concentration, the student studies in the school, not only needs to learn the knowledge from books, what is more important is the society manner, handling matters and other abilities of human communication. Through teaching MIS that DIGG builds, the student can issue their own individual study attainment and method summarize in own BLOG, even is only the diary of individual life and psychological activity. Through the DIGG platform, to promote these resources to other students, accepts the community browsing and review to exchange the emotion fully.

Digg Teaching Platform System Design

In WEB2.0 by stage of widespread application, each user is the main body of site, has the jurisdiction and function of equality, but WEB also naturally becomes the user carries on the collection, foundation, issue, share, management and creation platform to individual content (Li, 2008). DIGG should highlight the student's mainstay position, in teacher's as DIGG user, should have with the student the same level status, when the use teaching MIS teaching, should appears by the status of shepherd and assistor, no longer is the leader of entire teaching. Considering of these factors, the author attempted to design one "DIGG-based teaching MIS systemic structure model", as shown in **Figure 1**.

Resources Market

The resources market is the core component of DIGG teaching MIS, (here shows all resources). The resources market is constituted be two parts, one part is the outstanding resources, another part classifies the resources. The outstanding resources are just like going on the market to carry on sales the resources, it will show that in various column main page or site home page, these resources are the heat degree quite high resources, it will emerge from the classified resources automatically. The

classified resources are like going to the market to preserve the resources officially in warehouse, they were preserved according to groups in the resources cushion page in platform, they carry on the creation including the teacher and student by the platform user and recommend. All resources have a key parameters—heat degree, this parameter was decided by the DIG number of times, the heat degree high resources automatically becomes the outstanding resources, but the heat degree low resources can return to the cushion page, even if it was deleted from the platform like the expired commodity.

Resource Publishing

The issue of resources is initiated by Blog of user, the user can use the way of original, the resources that can also be collected through the Internet issued that after screening of user, thinks personally the quite outstanding resources recommend the resources market. When carries on the resources issue, the teacher user and student user should be at the same level position, the difference is that the teacher issues and teaching process related resources, should top closely demonstrated that and can the machine learning in Blog of student user. When issues the resources, the Job, work and paper reorganization that student completed could be issued to the student work page of Digg platform; Moreover, the student can also write about the method and learning experience in the study summarizes that to their own Blog, and recommend to the student Blog page of Digg platform, the platform will renew these resources to the related classified resources buffer automatically, and for other users to see and evaluate.

Resource Evaluation

Because Digg-based the teaching MIS is an entire open style issue system, but does not rely on the special resources promulgator and verification, therefore needs one perfect assessment mechanism to verify the resources. Regarding all submits to the resources of Digg page buffer, the student can make full use of the jurisdiction and democratic rights that the platform entrusts given, according to individual world outlook, the knowledge system and experience accumulates, comes to appraise for each resources, these can contain to the Dig operation of resources, personally to the opinion, commentary or the collection, the RSS subscription resources. The teachers can make the similar operation to the resources similarly, but bases on the role characteristics of shepherd the teacher acts, id should be able to suitably increase certain weight on teacher's voting or the commentary, to guarantee that the resources recommended will tend to rationalization. Resources that promoted to the ranking front row or the demonstration in the resources of various column even site home pages, will attract the attention of user community and many commentaries, this regarding to the promulgator of resources is an enormous drive and promotion, the result is the enthusiasm and interests of all students greatly enhances, and creates the good study atmosphere (Ou & Wang, 2011).

Resources Organization

The resource organization form of Digg teaching platform is mainly divided into two major parts, one part is the resources market, resources that the user issues for the first time centralized in resources cushion page, once these resources to be certain heat degree automatically will be recommended to the clas-

sified page the home page, even the home page of entire teaching MIS, the outstanding resources that was recommended that will in the site most striking position. Another part is individual Blog resources, this part of resources are also constituted by two parts, first, is the homemade resources, these resources can be the user originals, also can be reprinted outside, then the Blog makes free decision that recommends resources to the entire station or only takes individual reference and study. Original resources can be a problem sets, assigned by the teacher to student's teaching resources, also can be the homework that the students hand in, learning, personal mood, etc. Second, to quote the resources, these resources are in the teaching platform glanced over, the user thought that the newest consultation of quite outstanding resources or individual being interested domain, through the collection, RSS subscription and other function machine learning to get, it also can be the teacher pushes the work to student, the student gives the explanation to the teacher. Through the collection and reorganization of Digg teaching platform resources, it can effectively enhance personally to the efficiency of useful resource.

Mechanism Discussion of Digg Mode Teaching

After the text edit was completed, the paper is ready for the template. Duplicate the template file by using the Save As command, and use the naming convention prescribed by your journal for the name of your paper. In this newly created file, highlight all of the contents and import your prepared text file. You are now ready to style your paper.

Teaching Supervision Mechanism

Using multimedia to carry on the teaching in many places is

also only a conceptive thought that even though it has many profits, it is truly a very difficult operation, the important reason is it does not have the good supervision method. Regarding whoever the teacher or the student, starting is very difficult, a quite good way is unifies the combined the action of school encouragement and teacher's the self-restraint of supervision and student's self-discipline (Gao, 2010). Teachers require the students to hand in homework electronically or via Email, teach platform for uploading to issue that curriculum work relevant information and teaching resource through the teacher the teaching MIS, and force to request the student to carry on the upload of individual work through the platform, is an effective supervision way. After the student adapted to this way of teaching gradually, he or she naturally will form the good restraint consciousness, and make better use of various resources in the teaching MIS, thus promoting the development of teaching, and guaranteed the application and spreading of teaching MIS.

Bad Information Block Mechanism

On the one hand the Digg stage gathering collective intelligence, collecting various useful information, on the other hand it is also easy to appear uselessly, the wrong information, and what is it will provide the opportunity for the user to issue obscene, reactionary and other information. Therefore, regarding the teaching MIS of-based Digg model, the harmful information filtration function mechanism is essential, it can prevent the student to come under the influence of harmful information, and it can also guarantee the safety and reliability of study platform.

Credits and Grade Incentive Mechanism

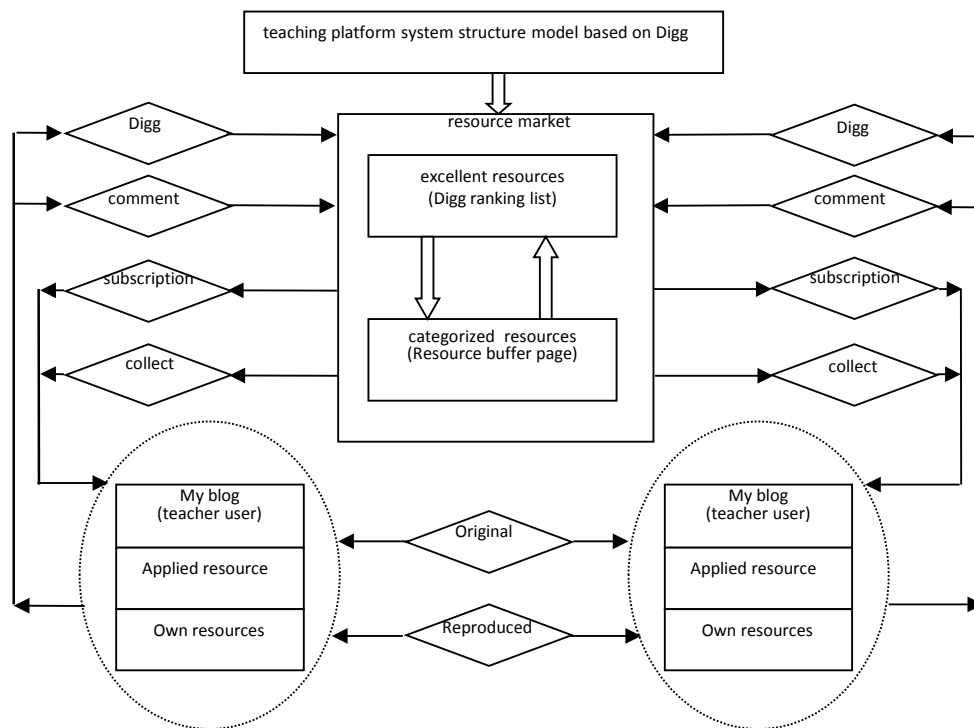Various applications of Internet-based, such as the forum,

Figure 1.
Teaching platform system structure model based on Digg.

community and IM software provide the virtual integral and rank service for the user, this maximum limit has satisfied the vanity of people, thus had guaranteed the user for uses the service favor and enthusiasm. Digg model-based the teaching MIS also should be able to profit from this pattern, thus ensuring the student's concern over the platform resources, improving the enthusiasm that the student uses. Except that the compulsory request, provides the integral incentive mechanism and rank incentive mechanism for user is most effective. It can increase the certain amount integrals for the user through issuing resources, commenting resources, thus awarding the corresponding rank or for its promotion title for the user.

Conclusion

In the educational reform of modern times, it should be considered how to promote the full scale development of students, stimulate the enthusiasm of study and initiative of students, to implement the "all for the students, for all of students" mentality, it has highly respects of the student and depends upon the thought of students comprehensively. But when carrying on educational activities, it should abandon separating teaching and study, and the system that is primarily for teaching, and returns to do missionary work because of study, takes studying

as the central system. We hope that it can provide the use for reference to the following research through this research, realize the democratic recommendation of study resources, help the student take advantage of various resources to serve for the study effectively, and truly realize the full scale development of overall quality.

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