

Social Media For e-Learning and Communication Using PHP as Server Language

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Abstract : this e learning system project in php is developed to process the learning system through internet. The main aim of the project is to provide the computer courses through online to the members who want to learn the courses without going to computer centers. This system provides the books & videos through downloading procedure. The members can download from the server. The members should register to login to the system. The registered members should enter the username and password to login to the project. The members can view the list of videos & books a posted by the administrator and download the books from the server.

The administrator will login using the admin id and password. If the admin id and password are correct, it will open the admin form. The administrator can add new books to the system. The add new book will ask for the book id, name of the book and description of the book from the administrator. The administrator will browse the book and add to the system. The book will automatically upload to the server. The students can ask doubts to the staff members. The staff members will send answers to the doubts asked by the students. The student can view the answers by the staff members. The students can clear their doubts through this form.

Index Terms - e-learning, social media, web tools, communication, database.

I. INTRODUCTION

E-Learning is the computer and network enabled transfer of skills and knowledge. It includes out-of-classroom & in-classroom educational experience via technology. E-Learning naturally suited to distance learning and flexible learning[4]. It is available anywhere, anytime. It is a self paced interactive instructive presented over the Internet to browser equipped learners. The E-Learning solution is empowering, engaging, effective and economical. PHP is strong tool for create dynamic and interactive Web pages. PHP is the widely-used, free, and efficient for rich applications/website development.

This is an open source technology which runs on Apache web server and also runs on Windows, Linux, Solaris, and various other UNIX platforms[6]. PHP development services offers unique, dynamic and highly functional web applications for across the world. PHP stores integers in a platform-dependent range, either a 64-bit or 32-bit signed integer. Unsigned integers are converted to signed values in certain situations whereas this behaviour is different from other programming languages.

MySQL is a database system used on the web also it runs on a server and it is idea for both large and small applications. Therefore php is combined with MySQL across the platform. [5]MySQL is a very known open-source relational database management system (RDBMS. MySQL is maintain under two different editions: the open source MySQL Community Server and the proprietary Enterprise Server. MySQL Enterprise Server is classified by a series of proprietary extensions which install as server plugins, but also shares the version numbering system and is built from the same code base.

II. BACKGROUND

Advanced e-learning systems, founded on computer and internet based learning & acquiring skills often attempted to represent independent teaching styles whereby the role of the e-Learning systems was to convey knowledge, as resist to the systems developed later which were based on computer supportive related learning which encouraged the shared development Nowadays, it is an increasing inclination to create virtual learning environment. E-Learning is defined as all forms of electronic supported learning and teaching service, which are procedural in character and the main aim to effect the construction of knowledge with reference to individual experience with study all material, practice and knowledge of the learner. Information and communication systems, whether networked or not, serve as specific media to implement the learning process.

There are numerous e-learning software's available in the market. It leads to confusion of choosing right system for particular institute. A web based LMS proposed by Nadire is known as Easy Way to Evaluate LMSs(EW-LMS).This is mainly a decision support system(DSS), which can help all the users to choose the best LMS system depending on their needs and type of usage. It also provides DSS using smart and flexible algorithm, which saves time and efforts of users. By using this system, a teacher can identify motivational level of students based on their motions identified by the system. So using these data a teacher can improve teaching methodology. The authors communicated with 180 students of six different universities in three consecutive years. Sometimes it becomes inevitable

to share the learning repositories among different institutes using LMS system. The system is flexible for selected pilot courses in engineering education system. The authors introduced a PHP scripting based tool called Sys Quake remote for generating experiments and resolve results.

III. METHOD

E-learning is essentially the computer and network enabled transfer of skills and knowledge in the innovative way. E-learning applications and processes include Web-based learning, computer-based learning, virtual classrooms and digital collaboration and also can include social media. This E-learning website and library also includes the impact of social networking.

The research includes survey, data processing and comparative analysis of results. For data collections there were used Google Forms. In this website there were used MySQL database for storing database of all users also the user can create his own panel by registering himself for accessing the data by their needs. User can also interact with all the other users just like other messengers. Officially, XAMPP’s designers intended it for use only as a development tool, to allow website designers and programmers to test their work on their own computers without any access to the Internet. To make this as easy as possible, many important security features are disabled by default. XAMPP has ability to serve web pages on the World Wide Web. A special tool is provided to password-protect the most important parts of the package.

Learning process is different in a classroom, SN and LMS, though we aimed to find common criteria by creating this website for comparison of these various ways of learning.

- Motivation: factors of interest formation in subject and teacher’s (student’s) individuality, attractive forms of learning activity (methods of cooperation), interaction among students and teachers[3].
- Convenience of system: friendly interface, simple use, necessary functionality (the criterion was not used for evaluation of face-to-face learning).
- Efficiency of communication: speed of receiving/sending information/announcements, obtaining answer to a question/task.
- Frequency of communication between a student and a teacher in learning process.
- Cooperation: possibilities for students to cooperate with each other in learning process.
- Understanding between a student and a teacher (mutual kindness and help, objective and detailed personal information about each other).
- Emotionality (informality) of communication between a student and a teacher.

IV. ALGORITHM

4.1 Message Digest Algorithm :(Data Encryption)

The MD5 message-digest algorithm is a widely used cryptographic hash function producing a 128-bit (16-byte) hash value, typically expressed in text format as a fixed 32 digit hexadecimal number [2]. MD5 has been utilized in a wide variety of cryptographic applications, and is also commonly used to verify data integrity.

MD5 digests have been widely used in the software world to provide some assurance that a transferred file has arrived intact. For example, file servers often provide a pre-computed MD5 (known as md5sum) checksum for the files, so that a user can compare the checksum of the downloaded file to it. Most Unix-based operating systems include MD5 sum utilities in their distribution packages; Windows users may use the included PowerShell function "Get-FileHash", install a Microsoft utility, or use third-party applications. Android ROMs also use this type of checksum.

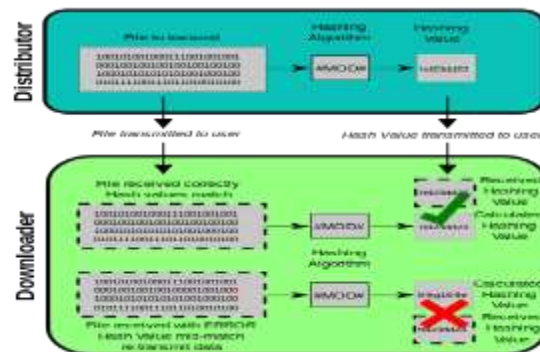


Fig.1 MD5 Algorithm

4.2 UML Diagram:

4.2.1 Class Diagram:

Class diagram describes the structure of a system by showing the system's classes, their attributes, and the relationships among the classes. Proposed system contains five different types of classes and each possesses their own attributes and methods. Main Classes of the proposed system are Browse Images, DDWT Algorithm, PSO, Fused Image, Qualitative Metrics have different functionalities. Class diagram for proposed system is in figure shown below.

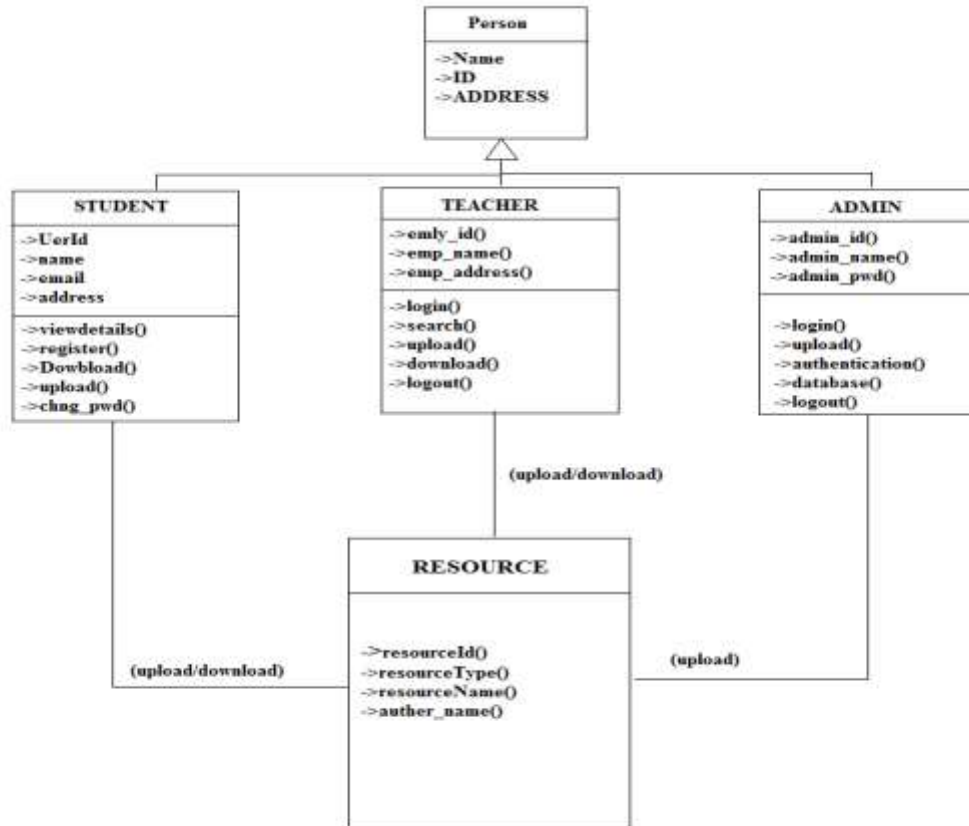


Fig. 2 Class Diagram

V. TESTING

5.1 Testing strategy:

Testing is an important part of software development life cycle. It is performed to ensure quality of the developed system. Testing includes a set of investigative activities that can be planned in advance and conducted systematically, to assure the stakeholder that system fulfills all the requirements gathered during requirement Gathering phase. A strategy outlines what to plan, and how to plan it. A successful strategy is your guide through change, and provides a firm foundation for ongoing improvement. Unlike a plan, which is obsolete from the point of creation, a strategy reacts the values of an organization and remains current and useful. When an organization tests its products or its tools, it tries to compare them against its expectations and values. By its nature, testing introduces change as problems are identified and resolved. A test strategy is necessary to allow these two impulses to work together. Furthermore, testing can never be said to be 'complete', and a core skill in testing is the justified management of conflicting demands; without a strategy, these judgements will be inconsistent to the point of failure. Software development is a creative process.

5.2 Type of Testing:

- *White Box Testing:* A level of white box test coverage is specified that is appropriate for the software being tested. The white box and other testing uses automated tools to instrument the software to measure test coverage.
- *Black Box Testing:* A black box test of integration builds includes functional, interface, error recovery, stress and out-of-bounds input testing. All black box software tests are traced to control requirements. In addition to static requirements, a black box of a fully integrated system against scenario sequences of events is designed to model field operation. Performance testing for systems is integrated as an integral part of the black box test process.

VI. RESULTS AND DISCUSSION

6.1 Results:



Fig. 3 Home Page



Fig. 4 Account page of user

Fig. 5 Page for uploading books

Fig. 6 Page for uploading videos

6.2 Evaluation:

We have tested this web portal service among 8 students and 2 teachers. They were find this website more useful and beneficial but they also find some features are missing like downloading of videos and books, also about the sharing mode. So we added those features in our website and it becomes more interactive.

VII. CONCLUSION

Proposed system is a kind of teaching and learning that one can be acquire by the assist of internet technology and that we have implemented from previous research paper [1]. We have proposed new interactive system for purpose of educational media that tested successfully as shown in evaluation VI.B. We found that this system is very useful for students and teachers.

VIII. ACKNOWLEDGMENT

It is matter of great pleasure for me to submit this project paper on “Performance of Social Media based e-Learning Using PHP Server”, as a part of curriculum. This is to acknowledge previous research paper [1] and other contributors for developing and maintaining the IEEE LaTeX style files which have been used in the preparation of this project paper.

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