

# Design and Development of Intranet based EduGuide Portal for Educational Institute

Ms. Nanada D. Sapakal<sup>#1</sup>

<sup>#1</sup>Department of Commerce and Management,

Shivaji University, Kolhapur, Maharashtra, India

<sup>1</sup>[nanda.sapakal@gmail.com](mailto:nanda.sapakal@gmail.com)

**Abstract**— The educational systems are becoming very much helpless with the use of Internet. As “Before Thinking – Google It and Google-It before Thinking” types of opinions are famous. The main focus behind this paper is to reduce the gap between administration, faculty and student through the EduGuide Portal. Almost all the institutes of higher learning are using communication, administrative, feedback tools based on on-line strategy. It truly save the time and money. Information available is at ease

**Keywords**— Educational Portal, on-line, Dot net framework

## I. INTRODUCTION

With the help of ICT, the growth of the educational institutes as well as the growth of individuals seems to be extremely increasing. The traditional ways of acquiring knowledge is now changing rapidly due to ICT. As educational strategy is the main source of knowledge, use of ICT becomes essential. The on-line culture in educational field is one of the prominent field of ICT.

The higher education is the vast area of educational field where student community is totally digital. The faculty is the other view of educational field should be digital emigrant while dealing with digital natives and digital literacy. Thus today’s era speaks the need of online culture.

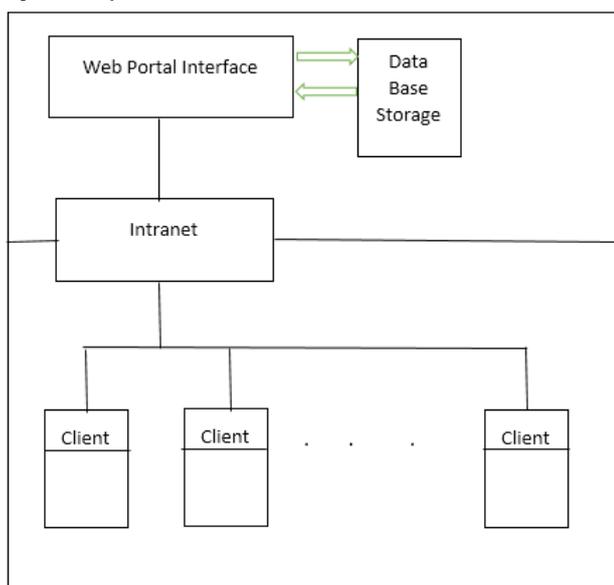


Fig. 1 System Architecture of EduGuide Portal

Web based concept is now introduced in education field to cope with deployment of information on-line with security and is trusted media. Thus overall scenario in educational field is changing. The main focus of this paper is to focus on the in-house development of EduGuide Portal based on LAN based on-line knowledge and information deployment.

## II. OBJECTIVES OF THE STUDY

Following objectives has been formulated for the proposed system

- To identify the need of administrative department to maintain the data properly.
- To identify the need of communication between staff and the students at ease throughout the campus outside the class room also.
- To design the proper portal with web based technology.
- To develop and implement Educational portal restricted to the campus area only.

## III. REVIEW OF LITERATURE

Technology change is the integrated approach of the technology with social aspects and end users.[1] The other aspects of learning management schemes have listed which changes the level of education field.[2] The good recommendations and views of teaching practices and the new ways of student engagement have been suggested.[3] social and organizational ability to cope up with the on-line concept and how ‘top-down’ development of students and their participation is judged and future enhancement of development and implementation of web based information is discussed.[4] Teacher can guides students independent of study. It makes teaching active listening and developing students’ knowledge easier. [5] The exchange of ideas from teacher to student and availability of knowledge and information is made easy with no time constraints. [6] It focuses on information of course content, evaluating strategy of student, creating class discussions and creating computer based reports [7]

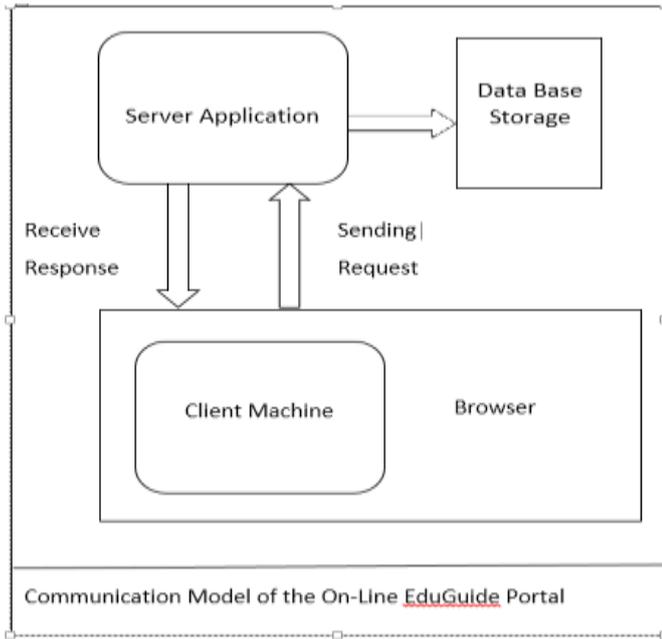


Fig. 2 Communication Model of the On-Line EduGuide Portal

**IV. SYSTEM ARCHITECTURE AND IMPLEMENTATION DETAILS**

**1. Administrative aspect**

For administrative work all the time the network will be available. Data related to office correspondence, staff and student can be implemented easily. This will be the good practice of ICT in educational field.

**2. Official information**

The Notification of official documents and to maintain student information up to date office needs to store data on the network. Various office inward outward documents can be stored digitally to forward it to the respective sections of the office and can forward it after completing the task to higher authorities so that proper utilization of time.

Office Registration:



**3. Course information**

The system allows adding courses according to their structure and syllabus pattern and faculty wise such as Science, Arts, Commerce. The operation in this module include

saving course details, updating and deletion of particular course.

**4. Faculty registration**

Faculty can place notes, assignments, question banks, Schedule of lectures and assignment timetable on the network so that students can get this information in the campus premises and not necessary to store this information separately on other secondary devices. Faculty can receive students FAQs also so that students can without any fear ask questions.

**5 Student Registration**

This module provides login facility to each student / user to store his/her personal and academic details. After successful student registration student get automatically generated User ID and password for login into the system. The operations on this module include saving, updating, deleting the Student information as well as they can send their FAQs to the respective faculty and can send any required document in the digital format to the office for administrative work.



**6. Conclusion**

The EduGuide portal is useful for maintaining the information generated in the department by the staff, student and other employees in the organization. As the information available is in the form of digital, at any time its access is possible and all the work in the educational field will be easy and can be done in time.

This information generated by this system can be maintained in the form of report so that it will be a supportive document for DSS because of the Graphical User Interface poses to be very simple to use and easy to understand.

All the data is handled at server side. Also the internal firewall set up at data center so all the unauthorized access from outside the campus is handled.

The system set up is made to be implemented in the educational field. The system executes at server end using application server and on the client side user can access the page through browsers. So processing is carried out at optimal speed. For any adaptive and corrective maintenance, system is easy to handle. The system is easy to upgrade with new modifications and is flexible. Thus system is scalable in the terms of design and performance.

**REFERENCES**

- [1] IT and organizational change:an institutionalist perspective  
Chrisanthi Avgerou, London School of Economics, London, UK  
Information Technology & People, Vol. 13 No. 4, 2000, pp. 234-  
262. # MCB University Press, 0959-3845
- [2]Web-based Learning Management System Considerations for  
Higher Education,Chih-Hung Chung, University of North Texas  
Laura A. Pasquini, University of North Texas,Chang E. Koh,  
University of North TexasLearning and Performance Quarterly,  
1(4), 2013
- [3]A Critical Examination ofthe Effects ofLearning Management  
Systems on UniversityTeaching and LearningHamish Coates,  
Richard James and Gabrielle Baldwin Tertiary Education and  
Management 11: 19–36, 2005.\_ 2005 Springer
- [4]An Institutional Perspective on Developingand Implementing  
Intranet- And InternetbasedInformation Systems Tom Butlerinfo  
Systems J (2003) 13, 209–231
- [5] Instructional Design Process ina Web-Based Learning  
Management System: Design, Implementation andEvaluationIssues  
Prof. Andrew BythewayDecember 2005
- [6] Technology and Teaching: A Conversation among Faculty  
Regarding the Pros and Cons of Technology Andrew T. Kemp,  
John Preston, Joseph Flynn, Misato Yamaguchithe Qualitative  
Report 2014 Volume 19, Article 6, 1-23
- [7] Web-Based Learning Management System Considerations For  
Higher Education Chih-Hung Chung, University Of North Texas,  
Texas Learning and Performance Quarterly, 1(4), 2013.