

# AKSHARA Application: the Smart way of Gaining Knowledge

<sup>1</sup> K.Jeevan Ratnakar, <sup>2</sup>V.M.S.Rithesh, <sup>3</sup>S.Sai Teja, <sup>4</sup>Ravi Mahesh

<sup>1</sup>Asst Professor, Department of CSE, KKR & KSR Institute of Technology and Sciences, Guntur, AP, India.

<sup>2</sup>B.Tech Student, Department of CSE, KKR & KSR Institute of Technology and Sciences, Guntur, AP, India.

<sup>3</sup>B.Tech Student, Department of CSE, KKR & KSR Institute of Technology and Sciences, Guntur, AP, India.

<sup>4</sup>B.Tech Student, Department of CSE, KKR & KSR Institute of Technology and Sciences, Guntur, AP, India.

**ABSTRACT:** Some of the students are unable to understand the classes taught by their faculty in their respective colleges/schools. So they have to visit tuition/ institutes to get knowledge about those lessons/particular subjects/topics. Those institutes will charge high in price. But we are directly providing experts through our application. Faculty who are interested to teaching even after their college working hours/who are retired and able to teach students and share their knowledge are registered to our application with all their details and amount they charge for teaching. Students are login to application and selects subject and students should share their location, then the faculty who are within their radius will be listed there with their details. Then students choose the faculty as per his needs and navigation, calls, video call, chat box will be provided. The students directly pay to faculty after they learned about that subject that student unable to understand.

**KEYWORDS:** Application, students, knowledge, subjects, calls.

## I. INTRODUCTION

In existing system, we can learn subjects and get knowledge by using online education and online videos. We can learn from teaching institutes and tuitions. With the present system we have several problems as shown in figure 1 and some of them are



Figure 1: Gaining knowledge through online and manual

- In the existed system, the institute members will charge highly for teaching.
- We may get only shortcuts for solving problems but we may not get how to analyze and the basics for particular subject.
- We get only few important key points but not the depth of the subject.
- Among large number of students in the institutions we can't learn peacefully.
- In Institutes, Teacher can't focus on each and every student because of overloaded environment.

In Proposed System, We are directly providing experts through our application. Faculty who are interested to teaching even after their college working hours/who are retired and able to teach students and share their knowledge are registered to our application with all their details and cost they serve for teaching. Students are login into application and selects subject and students should share their location, then the faculty who are within their radius will be listed there with their details. Then students choose the faculty as per his needs. With this proposed system we have some advantages like.

- By using application, navigation from student to faculty will be provided
- Video call is also available if both faculty and students are interested in teaching by video chat.
- Voice calls are available.
- Message chat box is existed. No payment/charges for application usage.
- Experts will teach the subjects and more real time examples and more knowledge will be shared to us by teaching experience.

## II. LITERATURE REVIEW

1. The authors Penny Turrentine& Lucy MacDonald [1] proposed two year-long studies explored tutoring online in two different modes. One, from atlantic community college in new jersey, looked at asynchronous (not real time) tutoring online using a discussion board. The other, at pima community college in arizona, used synchronous (real time) online software. The combination of these two studies suggests best practices for this new environment.
2. The authors A. McCabe and U. O'Connor [2]proposed Student-centered learning: the role and responsibility of the lecturer IT means that A student-centered approach to learning encourages students to have more responsibility for their learning and is a process that relies heavily on professional confidence to 'let-go' of traditional teaching responsibilities. This paper describes the introduction of a student-centered approach within one further education college in Ireland, explores the facilitation role of the lecturer and identifies strategies that have enabled effective transition from traditional pedagogical practice. The research incorporated semi-structured interviews with five lecturers who adopted student-centered learning in their teaching, focus group sessions with 36 students who engaged in a student-centered module and two classroom observations. The research identified some common understanding of a student-centered approach, although the emphasis differed slightly between lecturers and students, highlighting some implications for on-going practice.
3. The authors [Marisa Llorens](#), [Edmund Nevin](#), [Eileen Mageean](#) [3] proposed Online tutoring system is one of the approaches used in today's private education which allows the tutors and students to communicate each other in a real time. However, some of the private colleges are still using the learning process in the classroom with a large number of students. Online tutoring system with objective to upgrade the conventional system to computer oriented learning to students of Diploma in Computer Science Multimedia (DCSM) at University College Shahputra (UCSA). This method makes the learning process more comfortable and efficient. System development life cycle (SDLC) combined with prototyping technique is used for the development process. The methodology is chosen because it attempts to reduce inherent project risk by breaking a project into smaller segments, provides easy to change during the development process and it is suitable used on developing online system. A survey had been done among lecturer of DCSM to identify the problems while the students learn in conventional way to find the better solution to the future's students. The complete system contain with a lot of tools for the convenience of students and lecturers. The major tools include the learning materials, bulletin and learning assessment such as quizzes and assignments. Students have been tested on using the system with taking the quiz while the lecturers been used the system on developing the set of learning materials. The system testing is focusing on acceptance testing to determine if the requirements of the specification system are met. The findings show that the online tutoring system is interesting and pleasant to be used. The students agree the online learning give them flexibility on their learning compared to traditional learning. As the conclusion, students are satisfied with the content, structure and had a motivation on using online tutoring system.
4. The authors [Wolfgang Bauer](#), [Stuart P. Raeburn](#), [Edwin Kashy](#),[4] proposed “ Explain It To Me” it deals with The ubiquitous on-line delivery and assessment of personalized tasks and homework problems to students in pre-engineering physics courses has had considerable positive impact promoting student achievement. The reasons include instant feedback on the correctness of the solutions and the ability to interact quickly and efficiently with fellow students and teaching staff. Still, many and especially less well prepared students have considerable difficulty in understanding the assigned problems. The current work investigates the impact of providing students

video explanations designed to approximate personalized one-on-one tutorial sessions for a set of representative problems. Initial results show significant improvement in the students' problem solving ability.

5. The authors C. Bovill, A. Cook-Sather, and P. Felten [5] proposed "Students as co-creators of teaching approaches, course design, and curricula: implications for academic developers," "the traditional hierarchical approach to learning, described by Bovill, which sees the "expert tutor" positioned in front of "subordinate learners", is under threat as the needs and expectations of the learner change.

### III. PROPOSED WORK

It is an application, search platform that connects a student with a qualified and expert teacher nearby for knowledge enhancement in a particular stream/area/subject. Our project deals totally with five modules,

- Faculty Registration page
- Student Registration page
- Student location page
- Faculty list page
- Chosen Faculty page

#### Faculty Registration page:

- Faculty needs to either signup or login.
- This information will be used for student as a reference.

#### Student registration page:

- Student needs to either signup or login.

#### Student Location page:

- students are login into application and selects subject and students should share their location

#### Faculty list page:

- The faculty who are within their radius will be listed there with their details

#### Chosen faculty details page:

- Then students choose the faculty as per his needs
- Navigation, calls, video call, chat box will be provided. The students directly pay to faculty after they learned about that subject that student unable to understand.



Figure 2: Shows Design Constraints

As in Figure 2 shows our main aim to develop this application is to provide the best and easiest way of learning and gaining knowledge by students with high quality and low cost. To develop this application we also considered time, scope, cost.

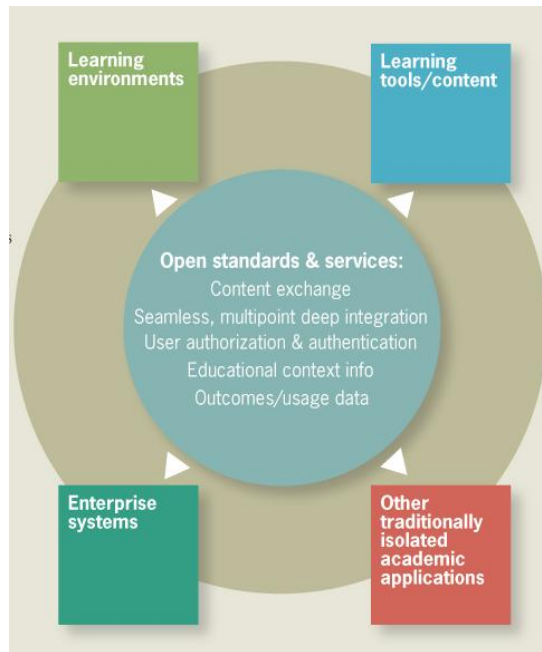


Figure 3: Architectural Design of Proposed System

Architectural design defines “The process of defining a collection of hardware and software components and their interfaces to establish the framework for the development of a computer system”.

Instruction is a numerous learning lifetime procedure of picking up information from all methods. The current instruction framework is for the most part dependent on the IQ I.Q viewpoints and lacuna exists in enthusiastic IQ E.Q. angles. To improve the nature of the current training framework enthusiastic knowledge subject ought to be actualized as obligatory subject at school level in Indian colleges. A speculative schedule for E.Q. is featured. Three dimensional reasoning can enhance E.Q of an understudy. Understudies of higher E.Q are gifted in looking of any emerging circumstance in an ideal way. We need quick track refreshing of educator's information through supplemental classes and stretching out web offices to improve the nature of instructing. Research and distributions of papers/books are to be made compulsory standard to instructors at school/college level to improve the nature of educating and progress of India. Residency might be reintroduced in school level to rouse educators in investigate. Master Vivekananda said that “Education isn't the measure of data that is placed into your cerebrum. In the event that you have acclimatized five thoughts and made them your life and character, you have more training than any man who has by heart an entire library ”.

This paper endeavors to feature the perspectives to improve the current training framework, particularly in quality viewpoints. New Definition: " Education is a various learning lifetime procedure of picking up information from guardians, instructors, companions and neighbors, books and diaries, motion pictures, Television stations and online worlds just as from encounters and exposures to various environs. Any sort of learning of an individual valuable to humankind and nature is under the extent of instruction ". The information prepares everybody to suit for the changing scene and furthermore to alter the cultural conditions to understand his own objectives. Society need based Revision of Curriculum: Quality and standard of instruction relies upon the ceaseless survey and refreshing of the educational plan of the understudies in the school, school and colleges levels occasionally. Leading body of studies ought to erase the exercises not helpful to life and society and intermittently acquaint new schedules with suit the general public need?

Sample output screens:



Figure 4: Home Page



Figure 5: Profile Page

Implementation Process

Implementation is the stage where theoretical design turned into a working system. Implementation is planned carefully to propose system to avoid unanticipated problems. Many preparations are involved before and during the implementation of proposed system. The system needed xampp and internet connection to use Skype and Google maps. The student and faculty are end-users and student will use our application to find the expert of required subject.

- STEP-1:Prepare Infrastructure
- STEP-2:Design the web page
- STEP-3:Using the web page
-

#### IV. CONCLUSION

All the manual work is reduced to a great extent. The teaching cost will be low compared to existed applications and institutions. The students get depth of topic by interacting with expert and student get huge knowledge. Each and every student was focused under teacher observation. The chance of student failures in exams will be reduced. Easy level of understanding the concept will be taught with real time examples by experience.

This application has been successfully computed and was also tested successfully by taking “test cases”. The application is developed using HTML and PHP as front end in XAMPP environment.

#### V. FUTURE WORK

With the system we proposed, we are trying to extend this to the maximum. The scope of the project can further be improved by in many ways. We add the future like that student may be get faculty list by searching with radius from their location. We can tie up with institutes and tutorial points. We can directly consult with schools and colleges.

#### REFERENCES

- [1]. Penny Turrentine& Lucy MacDonald, "Tutoring online: increasing effectiveness with best practices".[ NADE Digest, 2 (2) [2016].
- [2]. A. McCabe and U. O'Connor, "Student-centred learning: the role and responsibility of the lecturer," Teaching in Higher Education, 2013.
- [3]. [Marisa Llorens](#), [Edmund Nevin](#), [Eileen Mageean](#) , “Work in progress: Online resource platform for mathematics education”, School of Multi-Disciplinary Technologies, Dublin Institute of Technology Ireland,June 2014
- [4]. [Wolfgang Bauer](#), [Stuart P. Raeburn](#), [Edwin Kashy](#), “Work in Progress: Explain It To Me”, 36<sup>th</sup> IEEE frontiers in education conference san Diego CA, oct 2016
- [5]. C. Bovill, A. Cook-Sather, and P. Felten, "Students as co-creators of teaching approaches, course design, and curricula: implications for academic developers," International Journal for Academic Development, vol. 16:2, pp.133-145, June 2014.