

Study Verse

An Engineering Project in Community Service

Phase – II Report

Submitted by

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Bonafide Certificate

Certified that this project report titled “**Study Verse**” is the bonafide work of “20BCE10581,Gaurav Rai,20BCE10641,Anup Pal, 20BCE10648,Ayush Raj, 20BCE10448, Rohit Gore, 20BAI10338 , Yashvardhan Singh Bhadoria, 20BCE10484, Sanjeev Kumar, 20BCE10860, Prabhat Mishra, 20BCE10711, Dakshh Singh ” who carried out the project work under my supervision.

This project report (Phase II) is submitted for the Project Viva-Voce examination held on

Supervisor

Comments & Signature (Reviewer 1)

Comments & Signature (Reviewer 2)

1. INTRODUCTION :-

In order to overcome the issues that existed with the practicing manual approach, the "E-learning Management System" was created. Our programme is supported to get rid of and, in some situations, lessen the difficulties the current system faces. Therefore, our team created an online learning platform called "Study Verse". Our website will provide a selection of courses from many academic fields to help students with their academic goals and future career preparation.

Every checkpoint will have an assessment on our website, and a scoreboard will be maintained based on the student's performance. This will assist the student understand where they stand and will also serve to stimulate them. We also intend to include a parent panel so that parents may monitor their children's growth and understand where they stand.

There is an issue that many pupils are lost in their perplexity and don't know where to begin their course from. To avoid this, we will give the pupils a study guide(roadmap) so they can adhere to it and study in the right manner. As time is very important in students' life so by this they will not lose their precious time in finding the courses.

Some of our third- and fourth-year students are getting ready for placements and along with this they also create some videos on DSA or web development or on any course of their expertise so that first-year students may use as resources, instead of buying new courses. The courses that they upload will be checked, and only accurate data will be displayed online. We will make sure that only the valid data reaches to our audience.

1.1 Motivation

Online courses and learning are increasingly becoming crucial to the global training infrastructure. Online learning has made instruction efficient and available to everyone. India's education sector has constantly increased in importance. When it came to sophisticated education, India was one of the major nations on the planet. Despite the fact that online and distance learning have been there for a while, the presentation of online learning as an alternative to the traditional in-person homeroom technique in colleges and universities has been estimated uniquely in India during the previous few years. Up close and personal homeroom instruction has continually been the most prominently used method in the Indian educational system. The widespread use of disconnected techniques, their ease of use, and the lack of commitment to online learning have been the main barriers to the effective use of online learning. Despite this, the instructional papers have made the transmission of online classes at the high school and college levels mandatory due to the COVID-19 viral situation. Coronavirus has drawn out a radical change in the instructive framework in India as well as all the whole world. Colleges across India just as round the earth have motivated to the simulated classes suspending actual study halls. Operational instruction in India is at a beginning phase of development. A recent change to the Indian educational system's delivery of classes in response to the present COVID-19 situation is the use of an online mixed mode. This review then illustrates the opinions and concerns of teachers and students from high schools and colleges regarding the requirement for taking online courses in the aftermath of COVID-19. The example included 406 students from local high schools and colleges together with 70 educators. Online review framework was utilized with the end goal of information gathering. The identifications show that the accompanying territories are indispensable for educator and understudy delight with online classes. These zones are quality and opportune cooperation among understudy and educator, mechanical help accessibility, organized online class modules, and adjustments to set up conduction of commonsense classes.

1.2 Objective

For development it is fundamental that everyone has access to education. However, in many developing countries, families often cannot afford the higher education courses making it difficult for them to get education. Additionally, those who lack the time to attend classes on campus due to full-time employment, caring for families, or lack of transportation can enroll in distance learning, commonly known as online education or online courses. Online education has the advantages of being user-friendly, flexible, goal-driven, and cost-free.

Online learning is now quite well-known thanks to the quickly developing technology. Companies accept these online credentials as well, and graduates who completed their degrees online often land well-paying positions. Students can study subjects at their own speed and comfort level with the help of online education. In contrast to traditional learning, it adapts to the students' speed rather than forcing them to match it.

Below are a few objectives of online education:

- Improve the standard of instruction and learning.
- Bring together the students demands or learning styles.
- Increase teaching and development's efficacy and efficiency.
- Restore user availability and scheduling flexibility to engage students in the learning process.
- Provide all faculty, staff, and students with direct, universal access to information and services.
- Enhance the School of Education's online interaction capabilities for both individuals and groups.

2. Existing Work / Literature Review

Technology is education already adopted. There are also many innovation happening and also going on. So they are going to help teacher, professor and students in many ways. As we can see that there are many types of education app and website come out which helps in learning. In these types of app and website, they share a content and video related to the content and also in most of the website they give live session which help to interact and try to give feeling like classroom. In website and app, they show in animation which helps to understand easily. In classroom also technology adopted. They try to show animation to the student so they learn easily and effectively.

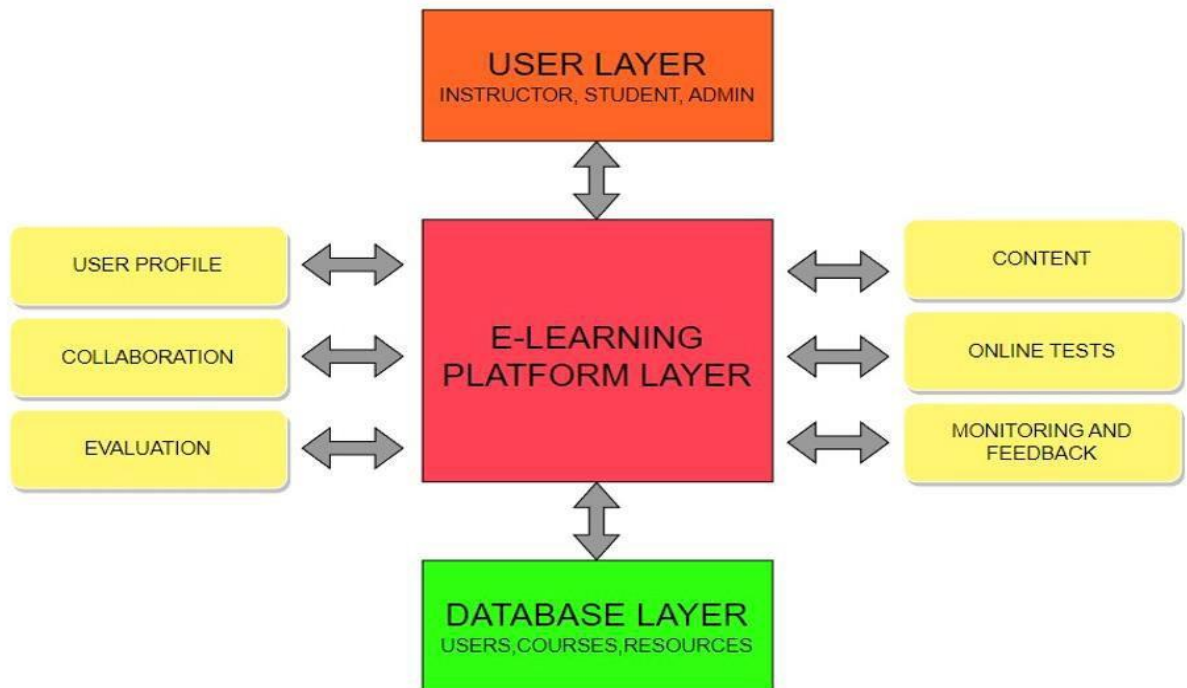
Today time, technology changes the way of learning and interaction with teacher or professor. Technology revolutionized the education industry. Due to availability of internet, it's easy to access and they can learn from anywhere.

Technology offers the opportunity to learn in an efficient manner. Both the professor and the teacher utilize technology in the classroom to enhance learning. The pupil is also effectively helped by this technology. They learn how to use technology as they use it for education. Since there are numerous places where they cannot find teachers, technology fills this role. Student and professor interaction is always possible. Currently, education is the primary usage of area technology.

Let's take the example of covid outbreak, in covid time mostly school and colleges close. This thing going to impact to the student. That time, technology help. Technology gave the virtual classroom, so their learning process didn't stop. This show how technology give benefits.

3. Topic of the work

SYSTEM DESIGN / ARCHITECHTURE



WORKING PRINCIPLE

Login:

After entering the correct login credentials the user will be re - directed to the study verse website home page and if the user does not have an account, then he will be redirected to sign up page where he can create a free account to avail the benefits. Also, an option to change the password will be given to the user in case the user forgets the password.

Signup:

At this page the user is asked enter username, password and email. In continuation the user is asked to fill up other relevant details like name, DOB, college, field of interest etc., After successful sign up the user is redirected to the home page. If the user already has an account, he is redirected to the login page.

Home Page:

This is the first page that the user arrives on after a successful login. Home page is the page where the user is given different course choices to learn from like Python, C++, Machine Learning, Java, Web development etc. It is page where courses according to the user preference are shown to the user to learn from.

Course Page:

Course Page contains all the details about the particular course that the user has chosen like videos, articles, quizzes, assessment. User can also check their progress in the particular course they have enrolled at this page.

User Profile and Tutor Profile:

On user profile page the user can see all the details about his account like the courses enrolled, certificates earned, personal details etc. Tutor profile page is the page where the learner can view details about the tutor like no. of courses provided, no. of students enrolled, rating etc.

EXPECTED RESULTS

The major goal of this project is to create a user-friendly environment where information can be shared and everyone has an opportunity to learn, regardless of where they are, as long as they register within the system.

We expect to:

- ✓ Meet the learning style or needs of students.
- ✓ Improve the efficiency and effectiveness.
- ✓ Improve user-accessibility and time flexibility to engage learners in the learning process.
- ✓ Providing the students with sufficient materials that they require to upgrade their skills or learn a new skill.

Individual Contribution

In the beginning , many brainstorming sessions was held to determine the best way to tackle the project. We spoke about so much information on this first level that we decided it was time to put those thoughts together and set to work on the project. Each of us contributed to the project in our own way, and subsequently a meeting was organised to discuss and compile our data.

My contribution helped make the team project a success. I supported the brainstorming efforts of the team and contributed ideas and information for the assignments. In order to help the team accomplish project objectives, I spend a significant amount of time working with team members on specific project tasks that fall within my area of expertise. I consistently displayed excellent participation abilities across the project's many project areas.

In making the site I helped in making the most of the Frontend part . I have designed the course upload page , the profile page ,the security page and the application form of the teacher. I have also integrated these pages and used firebase integration for uploading of the videos. I have also integrated the google authentication on the sign in page of the website. I have also developed the backend for the teacher's profile page.

4. CONCLUSION

We can conclude by saying that we aim to provide quality education in times when the world is going online. As stated in above we will provide different features such that parent panel ,leader board for competitions among students. The important objective of this app is to give a head start to our students on what to do starting from their freshman year to their final year.

There are many courses which are very expensive for a freshman student to purchase so our aim will to give free courses for all of them ,but if they want some exclusive courses we can also provide them in pocket friendly budget.

Also we will add many other features in future to optimize our app and give better experience to our students.