

(Annexure A)

PROJECT REPORT

On

Website and Application for online learning

COMPUTER SCIENCE AND ENGINEERING

B.E.

Batch-2018

in

December-2020



Under the Guidance of:

Mr. Rinku Saini

Submitted By:

Vanshika Mehta

Id. No. 1810992018_____

Shreya Sharma

Id. No. 1810991398

Gurleen Kaur Malhotra

Id. No. 1810991992_____

Gunveer Kataria

Id. No. 1810992008

Lakshay Sharma

Id. No. 1810992011_____

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CHITKARA UNIVERSITY
PUNJAB

(Annexure –B)

CERTIFICATE

This is to be certified that the project entitled “Website and application for online learning” has been submitted for the Bachelor of Computer Science Engineering at Chitkara University, Punjab during the academic semester July 2020-December 2020 is a bonafide piece of project work carried out by “Vanshika Mehta-1810992018, Shreya Sharma-1810991398, Gurleen Kaur-1810991992, Gunveer Kataria-1910992008, Lakshay Sharma-1810992011” towards the partial fulfillment for the award of the course Professional Practices-Cloud Computing & Security using AWS(CS254G) under the guidance of “Mr.Rinku Saini” and supervision.

Signature of Project Guide:

Mr.Rinku Saini

(Assistant Professor |

Computer applications

Co-ordinator | Student

mentorship Cell)

(Annexure –C)

CANDIDATE'S DECLARATION

We, **Vanshika Mehta-1810992018, Shreya Sharma-1810991398, Gurleen Kaur-1810991992, Gunveer Kataria-1910992008, Lakshay Sharma-1810992011**, B.E.-2018 of the Chitkara University, Punjab hereby declare that the “Cloud Computing & Security using AWS(CS254G)” Report entitled “Website and application for online learning” is an original work and data provided in the study is authentic to the best of our knowledge. This report has not been submitted to any other Institute for the award of any other course.

Sign. of Student 1

Vanshika Mehta
ID No:1810992018

Sign. of Student 2

Shreya Sharma
ID No:1810991392

Sign. of Student 3

Gurleen Kaur
ID No:1810991992

Sign. of Student 4

Gunveer Kataria
ID No:1810992008

Sign. of Student 5

Lakshay Sharma
ID No:1810992011

Place:Rajpura

Date:19th December,2020

ABSTRACT/ KEYWORDS

Online learning has proved itself to be the lifesaver for students in this time. Amidst this pandemic most students have shifted towards online learning. Classes conducted in the institutions are more focused towards learning at the same time and providing material for revision for the same while Courses which are put online are more focused towards self-paced learning. It helps provide flexible hours for the students to learn and helps them gain a global and broader perspective. It provides filtered material for students to learn. Hence, we created a website for the students to be at ease while learning the best content offered online for their subject.

Following are the keywords used:

Online learning

Videos

Pdf's

NCERT solutions

Instructor

(Annexure -D)

ACKNOWLEDGEMENT

It is our pleasure to be indebted to various people, who directly or indirectly contributed in the development of this work and who influenced our thinking, behavior and acts during the course of study.

We express our sincere gratitude to all for providing an opportunity to undergo “Course Name”- Project as the part of the curriculum.

We are thankful to “Mr.Rinku Saini” for his/her support, cooperation, and motivation provided to us during the training for constant inspiration, presence and blessings.

We also extend our sincere appreciation to “**Mr.Rinku Saini**” who provided his/her valuable suggestions and precious time in accomplishing our project report.

Lastly, We would like to thank the almighty and our parents for their moral support and friends with whom we shared our day-to-day experience and received lots of suggestions that improve our quality of work.

Vanshika Mehta

ID No:1810992018

Shreya Sharma

ID No:1810991398

Gurleen Kaur

ID No:1810991992

Gunveer Kataria

ID No:1810992008

Lakshay Sharma

ID No:1810992011

INTRODUCTION TO THE PROJECT

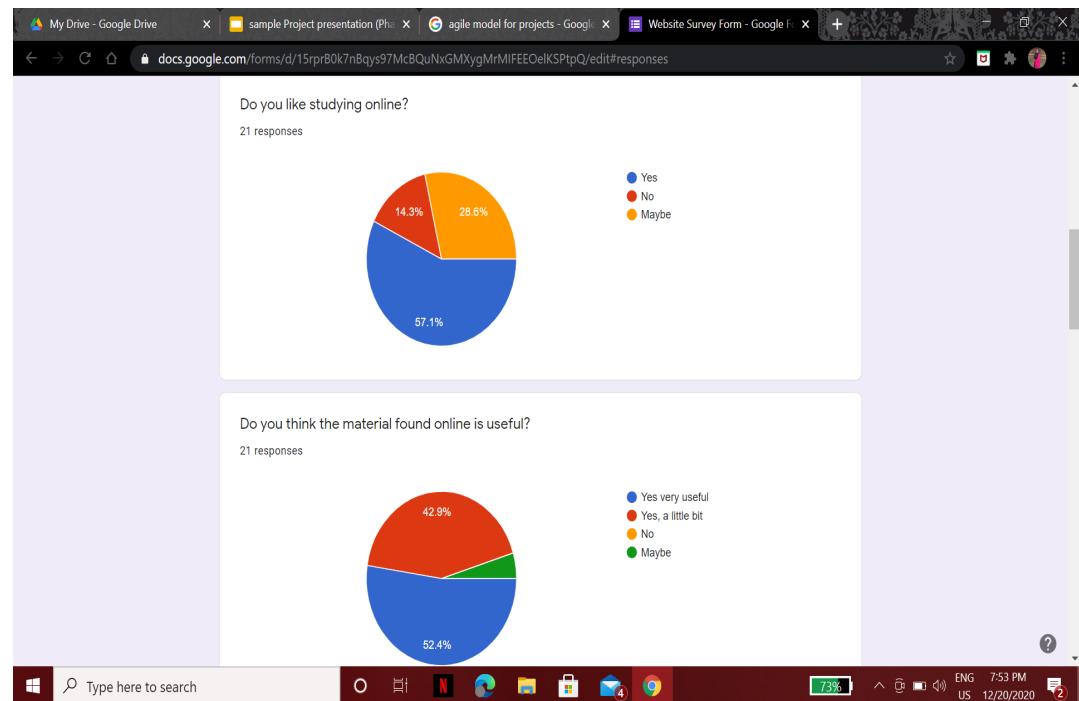
1) Background

E-learning has gained great popularity since its emergence in the 1950's. Projectors and television based learning were the concepts popular back then and while in the 1960's University of Illinois used e-learning as a concept to teach students through the mode of network connected computers. Reaching the 1990's distance online learning became a concept and hence since then online learning has been booming aided by the widespread availability of high speed internet and soon to be coming 5G internet. Keeping this in mind and we came across a problem which we as a team decided to solve.

2) Problem Statement

Nowadays, it is more preferable to sit home and study online rather than going out to institutions/schools for gaining education. So we designed a website for students who have keen interest in studying and will make most of their time by learning more and more about their respective subjects.

We conducted a survey with the help of our few school & college students. This helped us decide what problems we need to solve and how to attract students of the audience we decided to target at a given point. For the time being the audience targeted are the students of class 9-12 and we tend to further grow ahead and target the students pursuing different streams in their colleges. Based on our survey these were the results we got:



SOFTWARE AND HARDWARE REQUIREMENT SPECIFICATION

1) Methods

Amazon web Services-**EC2** were used to create/launch a wordpress instance and while it was mapped with elastic IP's to connect it with our custom domain i.e. **ieducate.co.in**. For the generation of custom nameservers which were used to connect our wordpress instance to our custom domain we used **Route53**. The DNS settings of our custom domain have been changed.

2) Requirements to run an application

Hardware such as a mobile laptop/pc etc.

A good internet connection

Windows 7, windows 8, windows, linux and Mac compatible.

PROGRAM'S STRUCTURE ANALYSING AND GUI CONSTRUCTING

All the strategy has been put into work and a website has been created.

Further you'll come across the work done on the backend for the creation of a website.

The screenshot shows the AWS EC2 Instances page. The left sidebar includes options like New EC2 Experience, EC2 Dashboard, Events, Tags, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and Images. The main content area displays one instance: Name: CC, Instance ID: i-055d82d4080a32bae, Instance state: Running, Instance type: t2.micro, Status check: 2/2 checks ..., Alarm status: No alarms. A search bar at the top says "Filter instances" and "Instance state: running". A "Launch instances" button is visible. The bottom of the screen shows a Windows taskbar with various icons and a battery level of 71%.

The screenshot shows the AWS Elastic IP addresses page. The left sidebar includes Images, AMIs, Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), Network & Security (Security Groups, Elastic IPs selected, Placement Groups, Key Pairs, Network Interfaces), Load Balancing (Load Balancers, Target Groups), and Feedback. The main content area displays one elastic IP address: Name: ccproject, Allocated IPv4 address: 3.17.111.162, Type: Public IP, Allocation ID: eipalloc-085693d48576e53e. A "Allocate Elastic IP address" button is visible. A "Summary" tab is selected. The bottom of the screen shows a Windows taskbar with various icons and a battery level of 71%.

The screenshot shows the AWS Route 53 console interface. The left sidebar includes sections for Dashboard, Hosted zones (selected), Health checks, Traffic flow, Domains, and Resolver. The main area shows the 'Hosted zone details' for **ieducate.co.in**. A blue banner at the top says: 'Introducing the new Route 53 console. We've redesigned the Route 53 console to make it easier to use. Let us know what you think. We are continuing to make improvements to the user experience based on your feedback, stay tuned! If you'd prefer to use the old console, click here.' Below this, the 'Records (4)' tab is selected, showing the following table:

	ieducate.co.in	NS	Simple	
	ns-1965.awsdns-53.co.uk.			
	ns-216.awsdns-27.com.			
	ns-772.awsdns-32.net.			
	ns-1530.awsdns-63.org.			
	ns-1965.awsdns-53.co.uk. awsdns-			

Below the table, it says '0 records selected'.

The screenshot shows the GoDaddy DNS Management interface for the domain **ieducate.co.in**. The top navigation bar includes links for Feedback, English (US), Privacy Policy, and Terms of Use. The main section starts with 'DNS Management' and 'ieducate.co.in'. Below this, there's a question: 'Choose your nameservers' with two options: 'I'll use GoDaddy nameservers (recommended)' (radio button) and 'I'll use my own nameservers' (radio button, selected). A list of nameservers is provided:

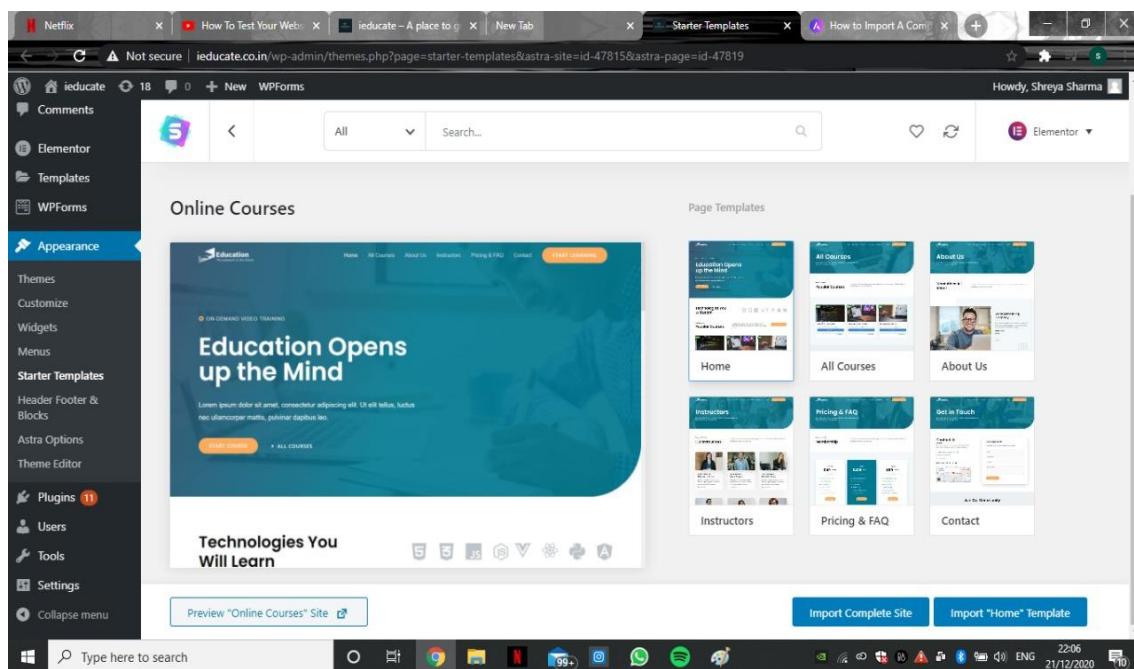
- ns-1965.awsdns-53.co.uk
- ns-216.awsdns-27.com
- ns-772.awsdns-32.net
- ns-1530.awsdns-63.org

Each item has a small trash can icon to its right. At the bottom right are buttons for 'Add Nameserver' and 'Contact Us'.

The wordpress website has been created using the Astra theme and elementor.

Total image weight is 432 KB.

Plugins used were Astra Widgets.



Furthermore you'll have a look at our website's final appearance.

i educate – A place to grow! Not secure | i educate.co.in

I EDUCATE CLASSES

I EDUCATE APP

CLICK HERE

CLICK HERE

REGISTER NOW!

i educate – A place to grow! Not secure | i educate.co.in

CONCEPTUAL CLARITY

LEARNING THROUGH VIDEOS

NCERT SOLUTIONS

BECOME AN INSTRUCTOR

TEACH STUDENTS ACROSS THE GLOBE.

SHARE YOUR KNOWLEDGE.

BECOME AN INSTRUCTOR

REGISTER NOW!

A screenshot of a web browser showing the iEducate website for instructors. The page has a dark blue header with the iEducate logo and navigation links for Home, Teach on iEducate, Contact Us, About Us, and a prominent orange 'START LEARNING' button. Below the header, a large white banner features the text 'MAKE A GLOBAL IMPACT' and 'CREATE AN ONLINE VIDEO COURSE AND MAKE A GLOBAL IMPACT BY TEACHING PEOPLE AROUND THE GLOBE'. At the bottom of this banner is a red 'BECOME AN INSTRUCTOR' button.

A screenshot of a web browser showing the iEducate website for all courses. The page has a dark purple header with the text 'DISCOVER YOUR POTENTIAL' and a 'REGISTER NOW!' button. Below the header, there is a search bar and a taskbar with various application icons. The main content area is dark purple with a large white 'ALL COURSES' heading.

A screenshot of a web browser showing the iEducate website for all courses. This view shows four circular buttons labeled 'Class 9' (green), 'Class 10' (purple), 'Class 11' (blue), and 'Class 12' (pink). Below these buttons, a message reads 'WE AS A COMMUNITY ARE ALWAYS THERE TO HELP YOU. FEEL FREE TO SHARE ANY SUGGESTIONS WITH US' and a 'REGISTER NOW!' button. The interface includes a search bar, taskbar, and a footer with copyright information.

CLASS 9 – i educate

Not secure | i educate.co.in/class-9/

Home Teach on i educate Contact Us About Us START LEARNING

CLASS 9

SCIENCE MATHS ENGLISH SOCIAL SCIENCE

REGISTER NOW!

Windows taskbar: Type here to search, File Explorer, Netflix, Microsoft Edge, Mail, Google Chrome, Word, Settings, Battery 86%, ENG IN 9:55 PM 12/21/2020, 2 notifications.

CLASS 9 SCIENCE – i educate

Not secure | i educate.co.in/class-9-science/

SCIENCE

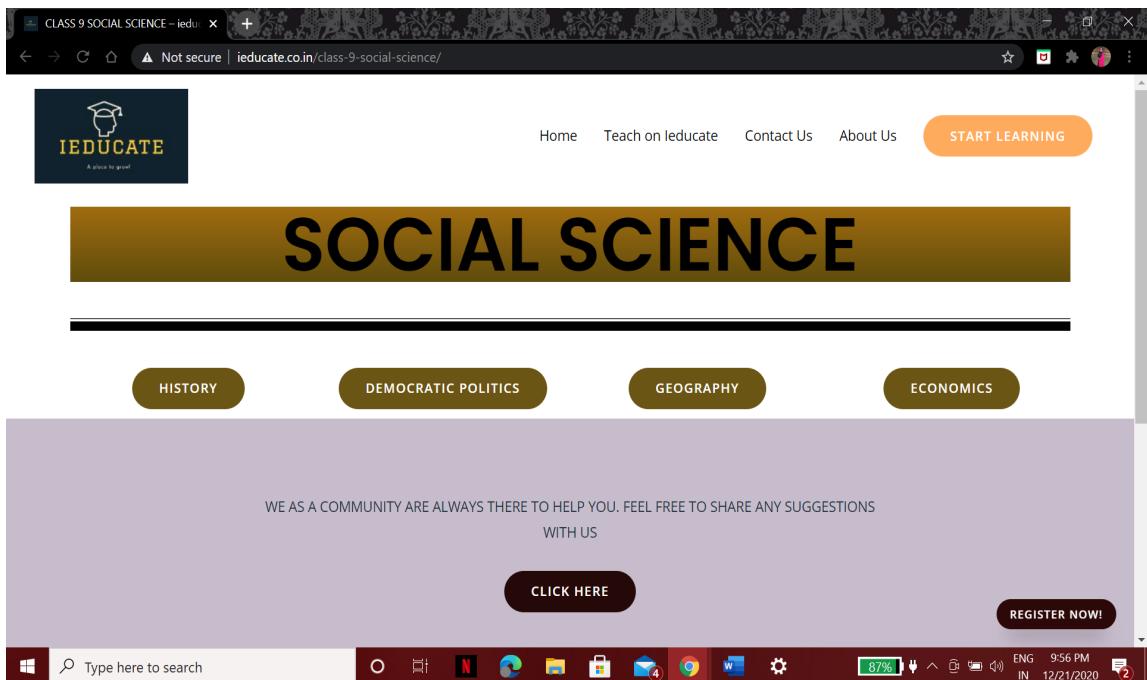
CHAPTER 1(MATTER IN OUR SURROUNDINGS) NCERT SOLUTIONS [CLICK HERE](#)

CHAPTER 2(IS MATTER AROUND US PURE?) NCERT SOLUTIONS [CLICK HERE](#)

CHAPTER 3(ATOMS AND MOLECULES) NCERT SOLUTIONS [CLICK HERE](#)

CHAPTER 4(STRUCTURE OF ATOM) NCERT SOLUTIONS [CLICK HERE](#)

Windows taskbar: Waiting for i educate.co.in..., File Explorer, Netflix, Microsoft Edge, Mail, Google Chrome, Word, Settings, Battery 87%, ENG IN 9:55 PM 12/21/2020, 2 notifications.



CLASS 9 SOCIAL SCIENCE – ieducate Not secure | ieducate.co.in/class-9-social-science/

IEDUCATE A place to grow!

Home Teach on iEducate Contact Us About Us START LEARNING

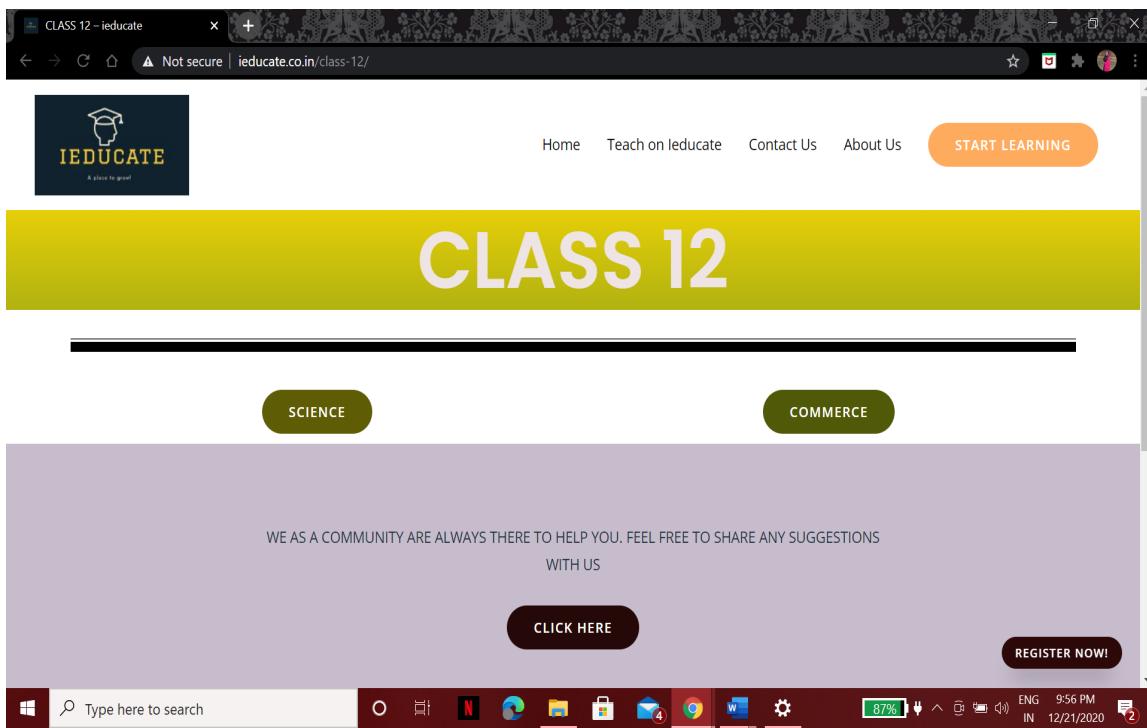
SOCIAL SCIENCE

HISTORY DEMOCRATIC POLITICS GEOGRAPHY ECONOMICS

WE AS A COMMUNITY ARE ALWAYS THERE TO HELP YOU. FEEL FREE TO SHARE ANY SUGGESTIONS WITH US

CLICK HERE REGISTER NOW!

Type here to search ENG 9:56 PM IN 12/21/2020



CLASS 12 – ieducate Not secure | ieducate.co.in/class-12/

IEDUCATE A place to grow!

Home Teach on iEducate Contact Us About Us START LEARNING

CLASS 12

SCIENCE COMMERCE

WE AS A COMMUNITY ARE ALWAYS THERE TO HELP YOU. FEEL FREE TO SHARE ANY SUGGESTIONS WITH US

CLICK HERE REGISTER NOW!

Type here to search ENG 9:56 PM IN 12/21/2020

The screenshot shows a web browser window titled "CLASS 12 SCIENCE - ieducate". The address bar indicates the URL is "ieducate.co.in/class-12-science/". The page features a dark header with the "IEDUCATE" logo and a graduation cap icon. Below the header, there are navigation links for "Home", "Teach on iEducate", "Contact Us", "About Us", and a prominent orange "START LEARNING" button. The main title "SCIENCE" is displayed in large, bold, black letters. Below it are four orange buttons labeled "MATHS", "PHYSICS", "CHEMISTRY", and "BIOLOGY". A central purple rectangular area contains the text "WE AS A COMMUNITY ARE ALWAYS THERE TO HELP YOU. FEEL FREE TO SHARE ANY SUGGESTIONS WITH US" and a "CLICK HERE" button. In the bottom right corner of this purple area, there is a "REGISTER NOW!" button. At the very bottom of the screenshot, a Windows taskbar is visible, showing icons for File Explorer, Task View, Netflix, Microsoft Edge, Mail, Google Chrome, Word, and Settings, along with battery status (87%), network signal, and system time (12/21/2020, 9:56 PM).

Furthermore you'll take a look at our mobile application in development.

12:44 65%

Screen1

BECOME AN INSTRUCTOR



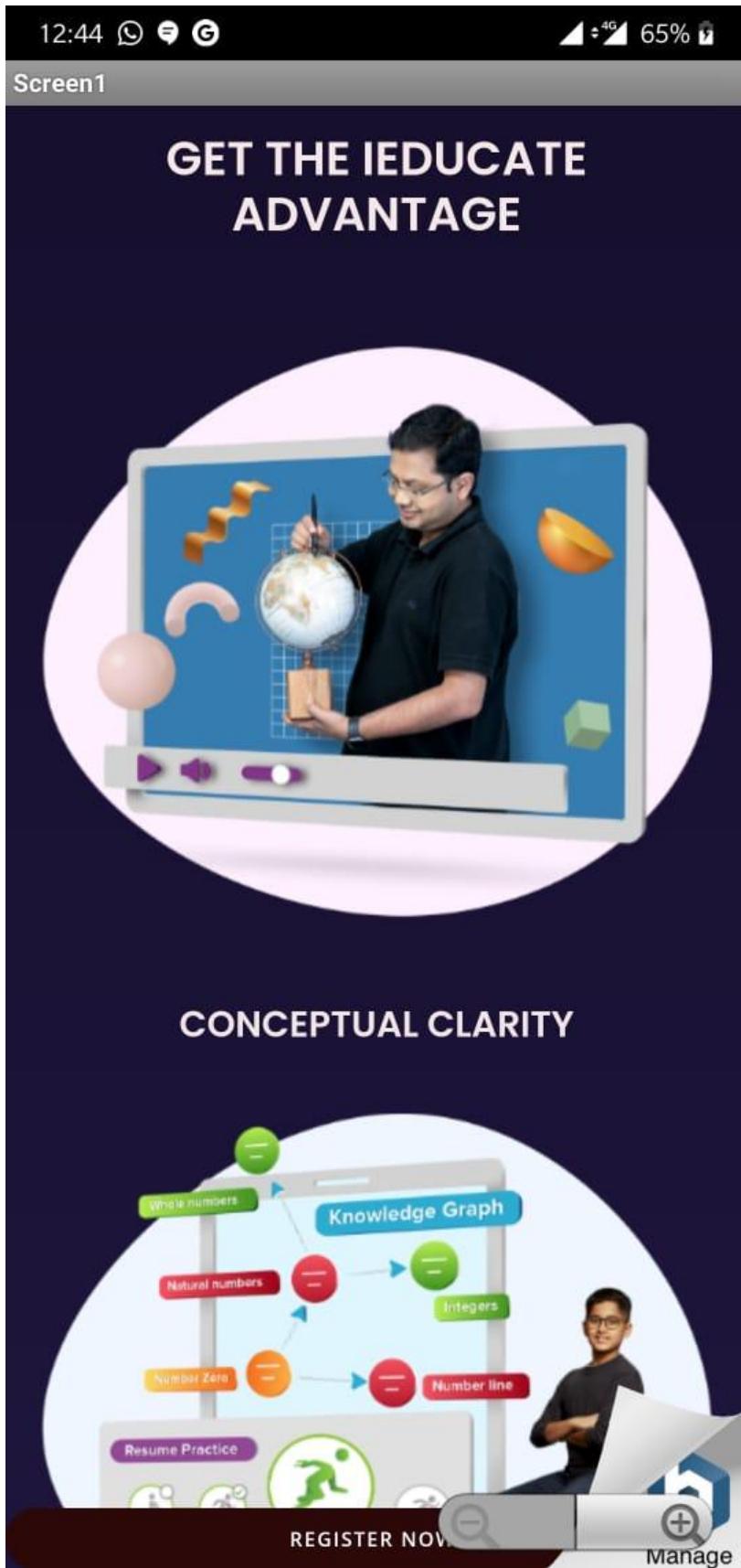
TEACH STUDENTS ACROSS THE GLOBE.
SHARE YOUR KNOWLEDGE

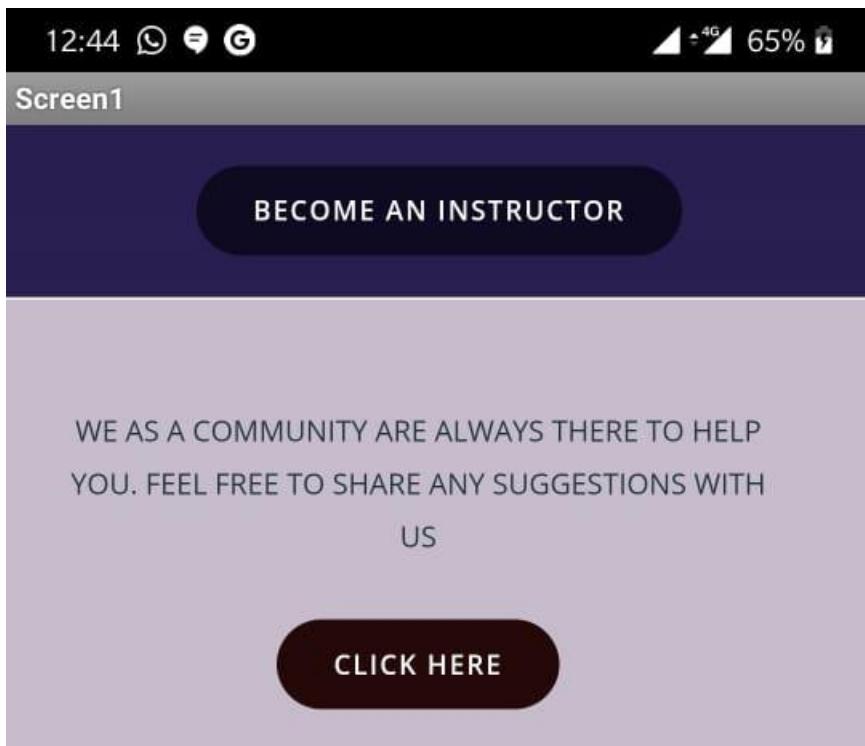
BECOME AN INSTRUCTOR

WE AS A COMMUNITY ARE ALWAYS THERE TO HELP
YOU. FEEL FREE TO SHARE ANY SUGGESTIONS WITH
US

CLICK HERE

REGISTER NOW   Manage





Contact Info

Phone

929-242-6868

Email

contact@info.com

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POWERED BY IEDUCATE

REGISTER NOW



Manage

Specifications of our website

Our website offers solutions to all the NCERT problems , Video references and last year question papers for all the subjects CHAPTER-WISE for the easy reference and hence makes it easy for the students to learn efficiently.

Operation of our website

A new user who enters our website will be allowed to access our website free of cost by registering to our website and try learning more about his/her subject. Furthermore according to their knowledge they will be able to become an instructor if wanted by going through a simple registration process and by giving proof of their needed qualifications.

It is an easy to use website for anyone who has keen interest in studying.

External Constraints

There is nothing/ no use of any violent or abusive language. Our website does not promote violence in any way. It is safe for people of all age groups to use.

LIMITATIONS

These include limited screen space confines it to work properly on laptops and desktops only for the time being.

CONCLUSION

This website would help get the students Video,pdf content filtered by the administrators itself for their learning. It would prove to be a platform for students/ teachers to put their work globally which would in turn help students from across the globe to come forward and interact with their instructors irrespective of time zones. It will be free of cost too.

FUTURE SCOPE

We have been more focused towards targeting the right audience at this time and in the future we plan on privatizing our website with the gain in right audience.

BIBLIOGRAPHY/REFERENCES

- 1) <https://youtu.be/cXDFZj1N7KA>
- 2) <https://www.ubuntupit.com/best-cloud-computing-projects-ideas/>
- 3) <https://www.skyfilabs.com/blog/top-20-best-cloud-computing-final-year-projects-for-cse-students>
- 4) <https://www.youtube.com/watch?v=5qxZj-PbAN0>
- 5) <https://www.youtube.com/watch?v=M34R7u5URcg>
- 6) <https://www.google.co.in/amp/s/www.cloudways.com/blog/host-wordpress-on-aws-cloud/amp/>
- 7) <https://youtu.be/MMtCtGhbjmg>