Scope of MOOC in India

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ABSTRACT: India's economy became the world's fastest growing major economy from the last quarter of2014.India has a tremendous GDP growth rate of 7% from last two decades. To continue thisgrowth rate we need to supply the demand to the market in regularity. The major requirement is the supply of quality human labor. This supply in is mainly dependent on education. The education system in our country is mainly through physical environment which is classroom interaction. This is the best way of teaching. But this facility can't be made available at remote and rural places. To give a new dimension to the education system of our country we need to shift our focus on online education and different ways by which we can make education available by using the power of internet. At present one version of this type of education, known as Massive Open Online Course (MOOC) is available but at graduation level education. We can scale this MOOC at primary and secondary education .This will almost bring 70 percent of our students in the scope of education which is available on internet. As Digital India mission will achieve its goal of establishing high speed internet in 250,000 villages by year 2020.This will help to reach this new way of education for students at remote places. Indian GDP is mainly dependent on Agriculture sector, Industry sector and Service sector. Above 49 % of our population is contributing to GDP through Agriculture sector. By the above statistics we can say that majority of population is in the field of agriculture sector, which means we can shift labour force from this sector to different fields and education is the major driving force for it. So our moto is to focus on rural area education and renew it with the power of internet.

KEYWORDS- Public Sector Enterprises, Social Welfare, Rural Development, Indian Economy, Socio-EconomicIndicators, Neyveli Lignite Corporation.

I. INTRODUCTION

Every student has different IQ-level. Their ability to understand a concept is dependent on many factors like their level of interest, prior knowledge in that particular subject and interface environment with the teacher. Every student has their own pace of learning and understanding a concept. In classroom teacher goes with a pace which is constant for every student in the class. So, students who are not so good to understand have an inferiority complex to ask teacher in the class and this is very serious problem which our education system is facing. Also the fear of failure is restricting or holding students back to join courses in which they have interest. So we need to create a platform which will eliminate the above two drawbacks. There are many teachers who are very good at their subjects but their teaching ability is restricted in that particular classroom. For such teachers we can create an environment which gives them chance to teach at a place where they are not present physically but through virtual environment of internet.

II. EXISTING SYSTEM

The existing system in INDIA, field of online and distant learning education is mainly for graduating students. NPTEL (National Programme on Technology Enhanced Learning) of IITB, is a very good model of education through internet but it is mainly for engineering students. We can scale this concept at root level of education which is for primary and secondary section students. At present, there are limited MOOC platform in INDIA, so we need to understand and create a market of this environment

III. PROPOSED SYSTEM

To overcome the above problems we can create a platform which will help to build an environment that will provide a chance and opportunity to students to learn and teachers to interact with the students at remote places with the help of internet. We can also provide online counseling support to guide our students and to clear their doubts.

IV. MATHEMATICAL MODEL

Set Theory Analysis:

a. Let 'S' be the | MOOC be the final set.

$S=\{I,O,F,C\}$

b. Identify the Input as

$I=\{T,S,A\}$

$T=\{T \mid T$ be the teachers and $T \in$ Videos, $T \in$ PDF'S, $T \in$ PPT'S $\}$.

$S=\{S \mid S$ be the Student and $S \in$ subject to be searched, $S \in$ Access to course$\}$

$A=\{A \mid A$ be the admin and $A \in$ permission to be granted$\}$

c. Identify the Output as

$O=\{TO, SO , AO\}$

$TO=\{TO \mid TO$ be the output and $TO \in$ Uploads ,General Announcements$\}$.

$SO=\{SO \mid SO$ be the output and $SO \in$ courses relevant to subject,   access to course$\}$.

$AO=\{AO \mid AO$ be the output and $AO \in$ insertion and deletion of   courses along with permission granting facilities$\}$.

d. Identify the Functions as

$F=\{OCS,Au,Su,Srh,Up,Down\}$

$OCS=\{OCS \mid OCS \in$ OnlineCounsellingSupport()$\}$

$AU=\{Au \mid Au$ $\in$ Authentication()$\}$

$Su=\{Su \mid Su \in$ SignUp()$\}$

$Srh=\{Srh \mid Srh \in$ Search()$\}$

$Up=\{Up \mid Up \in$ Upload()$\}$

$Down=\{Down \mid Down \in$ Download()$\}$

- **OnlineCounsellingSupport()**

  Services are typically offered via email, real-time chat, and video conferencing for the purpose of advocate.

- **Authentication()**

  Authentication is a process in which the credentials provided are compared to those on file in a database of authorized users' information on a local operating system or within an authentication server. If the credentials match, the process is completed and the user is granted authorization for access.

- **SignUp()**

  The action of enrolling for Teacher and Students or employing teachers.

- **Search()**

  An act of searching for topic or course or teacher.

- **Upload() & Download()**

Transfer (data) from one computer to another, typically to one that is larger or remote from the user or functioning as a server.

e. Identify the Constraints as

C={NTHI,NTE}
NTHI={NTHI | NTHI is Need to Have Internet }.
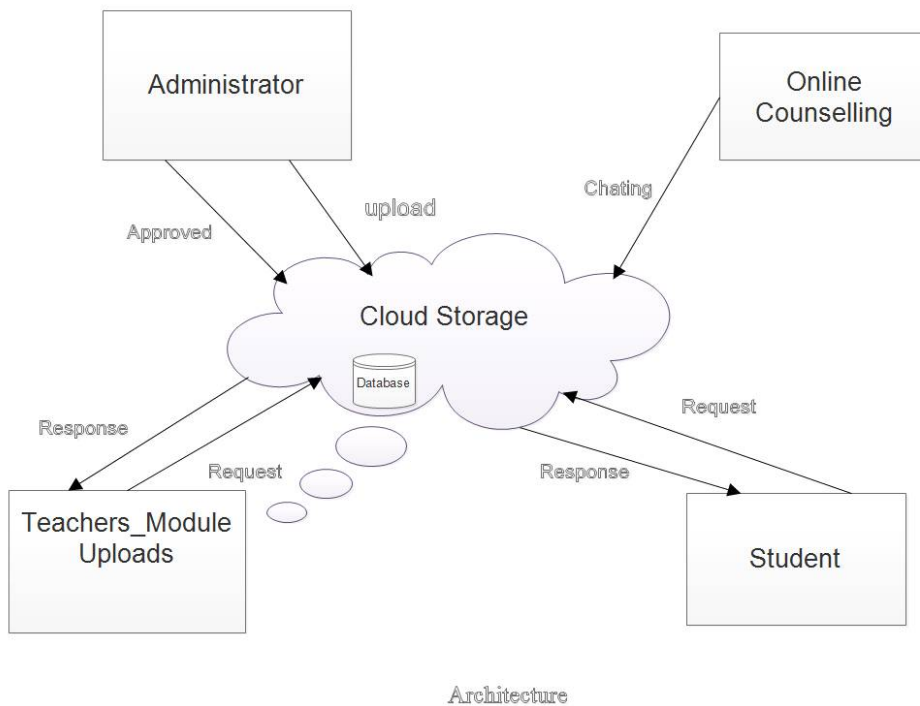NTE={NTE | NTE is Need to Enroll}

V. SYSTEM ARCHITECTURE

Fig 01 System Architecture

VI. CONCLUSION

We have come across all the details of the present condition of MOOC in India at primary level. As this is the right time to take the education system of India a step further. It need to add a new dimension in its structure through MOOC which will lead to the implementation of online education. It will also lead to implementation of distant learning. To give a complete new dimension we have added a feature where the one who is interested to teach can be the part and contribute to our mission. In this way we are creating a platform which will help students of the distant places to have an interaction with teachers and get through the concepts which they want. And also online counseling will be provided to them to guide and clear the doubts of the students if any.

VII. ACKNOWLEDGEMENT

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