SCRIPT OF TALK

TITLE: **What is inside a MooC**   SPEAKER: **Prof. T.V.Prabhakar**

NARRATION:

Hi!! I'm Prabhakar. I'm with the Department of Computer Science at IIT-Kanpur. In this lecture we will see what is inside a mooc. What I call the architecture of a mooc. I have a picture here which shows the components of a mooc. It is not complete but it covers all the major components, but let's see what there is. At the bottom I have added what is called educational resources and a mooc is all about teaching and learning and there will be of course educational content this is primarily in videos. These are short videos what we call learning objects they focus on one topic typically they are small in duration under 10 minutes 67 is considered optimal and then you may have other kinds of resources like pdf. files or documents, images and so on and then there is metadata. Meta data is data about data which is talking about the videos the details and so on. So, educational resources forms the foundation the basis for a mooc and then we have interactions now interactions is where the participants which include the students and the teacher and maybe the teaching assistants they will connect and collaborate with each other they ask questions the questions get answered and so on. So, an interaction is the other component in a mooc. Then identity management becomes important when the student wants to use the certificate let's say for a job so we have to make sure that the credentials of the students are established and let's say there's more than one course it is the same student who claims a particular identity across both courses and so on and then assessments we want to have assessments for various reasons the primary reason of course is to make sure that the student has understood what is important in the course and what is taught and also to give a certificate we want to may have a pass criteria let us say. And for that I need to have a component which does evaluations which conduct exams and which are

conducted online. So, evaluations are the next component of a mooc. Learning analytics is all about whether the student has come to the class or not and is participating in the class or not. So, analytics will tell me how effective the courses in some sense whether the student is engaging with the course and how well she's engaging with the course. Certification is finally we would like to give certificate of proficiency maybe or a certificate of participation in the simplest case and the certificates are sometimes given by the instructor by the by the company which is conducting the course or the University of which this course is a part of certification we have multiple criteria just attendance certification or competency certification or a proficiency certificate and so on and so forth. So, certification and what kind of certificate to give and that criterion is the next up and finally mooc is nothing but it is an event. There are educational resources and other components all these are put together and we run a course. so that's what I'm calling an event if it's an event you have to do an event management so if you're talking of a mooc in my mind these are the major aspects of mooc. You will got to have educational resources got to have interactions amongst the participants you must know how to manage identity and preserve it you must know who conduct exams you must be able to monitor the activity on the course You will have to decide what kinds of certification you will give and then you must enable to evaluate the students so that the certification is possible and of course you will have to run the whole event this is what I call the architecture of a mooc.

There are other small minor components which we will see when we go into detail about the architecture but the first cut mooc when you open the box and see These are the components that you will see inside a mooc.

thank you