# Research paper on E-Learning Application Design Features

## using Cloud Computing & Software Engineering Approach

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*Abstract*—**For several years, the importance of Cloud computing influences in many areas including E-Learning. Education is seen as important for every individual and country's growth. Basics objective is to design an Application Model to support eLearning Services. The current e-learning systems lack the appropriate infrastructures & efficacy integrated Application Model. A cloud technology gives platform to run our e-learning applications on services basis to any end users using the internet from cloud infrastructure. It will provide optimum affordable price package to educational organizations in particular for trainer and learners. We need to combine various technologies to achieve this particular objective. Further explains about importance of the E-Learning Design features and analyses the need of cloud computing. So, we need to figure out cloud based application model implementation's importance for e-learning system, and which made an active research on following manner: its working method, architecture design, Development tools and external interface with the application model, Software Engineering approaches. This paper describes about importance using of cloud environments for any institutes and learners usage, to underscore its possible benefits and offerings in term design.**

*Keywords*— *E-Learning, Cloud Computing, Application model.*

## I.    INTRODUCTION

Cloud is on demand services using internet as medium and shares infrastructure with multiple end users in same resources. Cloud Application Service not required installation, fast deployment, greater scalability and cost optimization. It uses Cloud front for his distribution among multiple users. Course taught using social software like Application's tools the learner may have very few control over, but the academician or Administrator is the owner and has most of the control. Various number of parameter things in cloud based data, both applications' functioning and resources are distantly available, accessible everywhere, salable assets.

## II.    CLOUD SERVICES

Cloud is allow to built application in multiple ways, users can use open source, any hardware or software are salable in demand basis, or just like PC which is hosted remotely.
Three different services –
i)    SAAS  ii) PAAS iii) IAAS

## III.    CLOUD APPLICATION DESIGN

In education institutes learning deals with three major elements: teacher, students and content of teaching. Very basic communication is between Application with Student and Content. Communication between elements is maintained using technical facilities and hardware which used to communicate via internet Cloud.
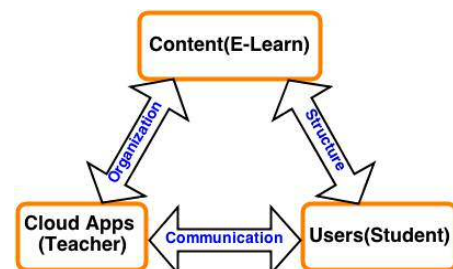


Fig.1. Didactic Relation in learning process

"Multiple e-learning methods from open free sources to payable commercialized one. Two entities are listed out as involved e-learning system as the trainer & the Students." [1]

Learner: