An Efficient system for Compliance Learning Management System

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Abstract—The purpose of this study is to create visualized online simple sequencing authoring Tool (VOSSAT) that provide an easy-to-use and web-based interface to help instructors edit existing SCORM-compliance content packages with vigorous development of the internet, web-based e-learning system have become more and more popular shareable content object reference model (SCORM), the most common ordinary consistency is the way to design among dissimilar web-based e-learning system, provides the simple sequencing specification (SSS). Like supply chain management, the inputs of visualized online simple sequencing authoring tool are SCORM- compliance content packages; the outputs of visualized online simple sequencing authoring tool are content packages to be delivered at SCORM-compliance learning management system. In terms of authoring processes of metadata file, a teacher needs to only fill some options in the annotation windows. Then, the visualized online simple sequencing authoring tool automatically and dynamically generates the paragraphs needed for presenting the sequencing of learning path properly. A SCORM compliance learning management system (LMS) will develop that enhance learning by effectively and efficiently managing the learning itself. This makes it possible to describe collaborative learning, assessment and facilitation for multiple users.

Keywords —*VOSSAT, SSS, SCORM, LMS.*

I. INTRODUCTION

SCORM stands for "sharable content object reference model" and it is a set of technical standards developed for e-learning software product. The standards determine how online learning content and learning management system (LMS) communicate with each other. Learning is a socially embedded design process. But most of today`s e-learning system fail to properly support the design-related and the social aspects of learning. In teaching and learning however, signs and symbols have to be interpreted in term of personal experience and knowledge, individual preferences and interests. Therefore, authoring learning material on the web. Consequently, the activities of learners are restricted to selecting and reading. Based on some fundamental mirror image on the role of technology in learning management system processes, we conclude that top priority must be given to the construction of course

sequencing that supports learning path. SCORM compliance software means that a learning content production tool or a content delivery tool adheres to the SCORM standard, a vendor-neutral specification that enables interoperability.

II. METHODOLOGY

A. Training course

The Define training course. Each training course will have multiple pages. Will have some training content. Training content can be a rich-text data or pictures.
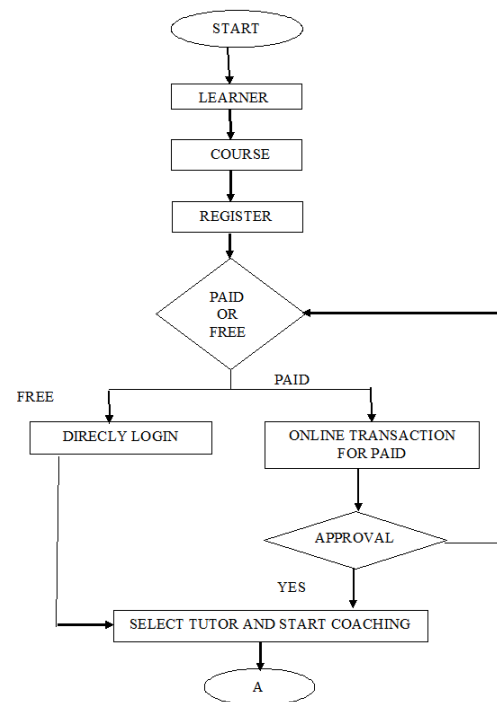

Fig 1: Flowchart of Training course

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B. Linking training with user

Linking training with user administrator will access to assign the training to the users. System will have required report to help administrator to know who has been assigned what and who all are missing.
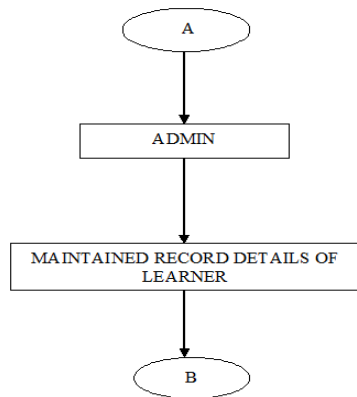
Fig 2: Flowchart of Linking Training

C. Training process

Administrator can activate/deactivate particular training. Administrator can schedule the training where he/she will define start date and end date of training. System will send alert emails to users on schedule dates. Users will open the link and view the training content. System will keep track of who has opened which training and who long they have been on the page i.e. view time. When user is finished with training he/she can attend test. User can go through the training content as many times as he/she wishes. System will monitor the attendance of training send remainders to those users who have not opened the training yet. On end date system will send final notification. Once end date is over no one will have permission to view the content till the same training is opened again. (Exam period).

D. Online Test

System will have facility to define question bank for each training. These question will be objective type. Administrator will have rights to define exam and link users with exam. On target dates users will appear for exam. As discussed all qualified users from allocations will appear for exam at predefined date and time. Each users will access the test paper using his/her desktop. To avoid the copy in exam system will appear different test paper for each user.

E. Report

Application will have few basic reports like who has been assigned which course, who has viewed which course, who has attended online test and what was result.
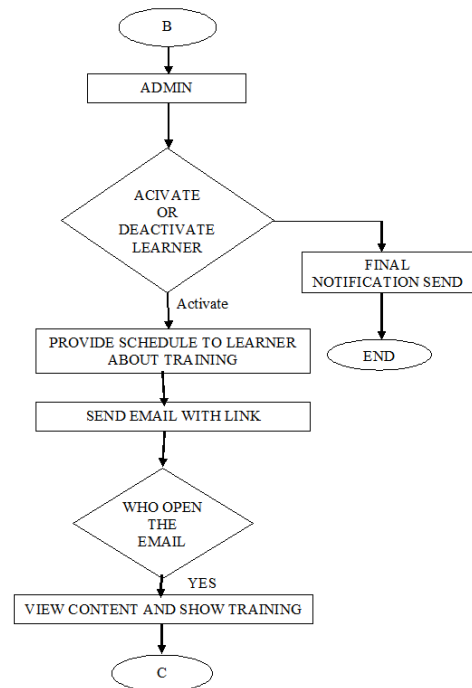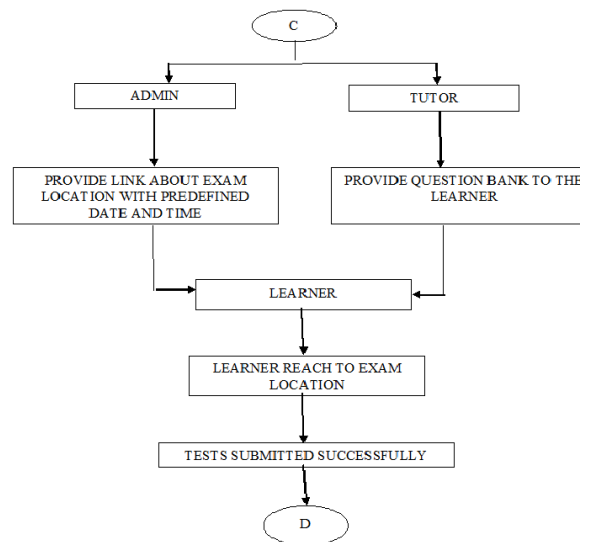

Fig 3: Flowchart of Training Process

Fig 4: Flowchart of Online Test

Fig 7: Course Content
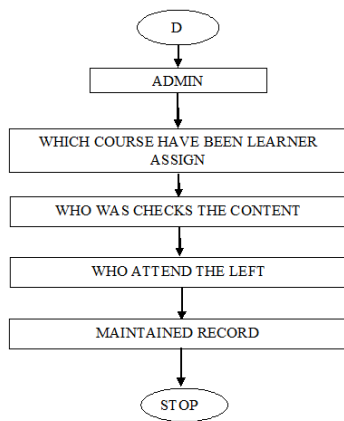

Fig 8: Database

Fig 5: Flowchart of Report

III. RESULTS

From the result, we found that the learner interacted with many contents understood the learning better than with face-to-face lessons, we found that there was sufficient support for learning through discussion, question asking and interaction with others. In SCORM compliance learning management system standard determined how online learning content and learning management system communication with each other. This system have multiple pages for training propose. Administrator will access to assign training to the user. Whole system handle or manage by administrator. System will send alter email to user on scheduler data. User will open the link and view the training content. System will keep track of who has opened which training and applicable for test simply learner learn from tutorial and held the online test. SCORM compliance learning management system ability to manage learning based on the design of the resulted in effective learning.
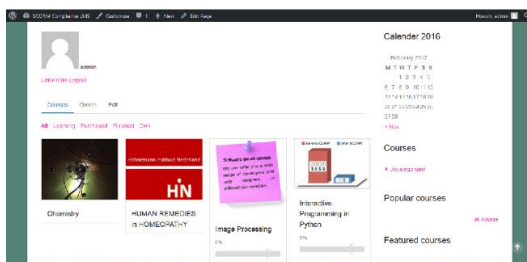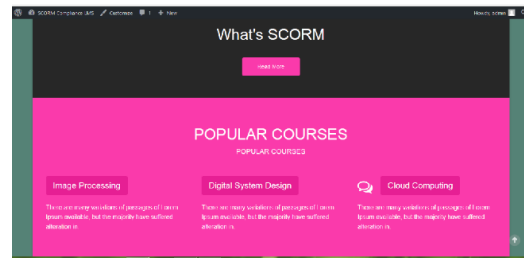
IV. CONCLUSIONS

The researchers built SCORM compliant learning management system to provide the flexibility to the learner to learn at anytime, anywhere, by using this web application. It enhance the knowledge and performance of the learner. The web application will provide online teaching as well as provide online test series for the learner to enhance their knowledge and skill. The purpose of this qualitative study was to explore the nature of reading comprehension approximately or effectively.

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Fig 6: Admin Profile