

## SCORM Based E-Learning Platform

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**Abstract**— Now a day's SCORM standards is taking the market of e-learning. Sharable Content Object Reference Model (SCORM) is a universal standard and is made available for sharing purpose. Sharable Content Object Reference Model is suitable for learner and its main objective to produce course content. It ensure high quality in education as well as in training which is suitable to learner's need and deliver it with effectiveness. It can deliver learning material to the learner and tracking of learner's action and scores. This paper gives brief information about SCORM and e-learning and it would be beneficial for learner.

**Key words:** Sharable Content Object Reference Model, Reusability, LMS

### I. INTRODUCTION

SCORM, Sharable Content Object Reference Model, is a standard for web-based e-learning that has been developed to define communication between client-side content and runtime environment. SCORM is the most widely used e-learning standard as it allows any SCORM conformant LMS. While several tasks such as tracking, time completion, pass/failure, reporting a single score can be done equally well by SCORM, it is incapable in many other areas. The function of both e-learning and SCORM is the same- that is, to capture learning activities. SCORM does not speak to instructional design or any other pedagogical concern- it is purely a technical standard. It can define how to create "sharable content object" or "SCOs" that can be reused in different systems and contexts. SCORM enable developers to format and package learning content in a standardized way so that the content can on all LMSs and shared amongst other members. E-learning content mainly delivered via Internet, audiotape, videotape, DVD. The students and other learners may access web-based material anytime from anywhere in the world, being connected through Internet. The main functions of the SCORM are How does content among different LMS communicate with their back-end during runtime. SCORM has taken place among both e-learning vendors and users, not just in United States but also in other countries.

Implementation of SCORM-based e-learning initiatives works best when an organization has people who deal with change and the inevitable uncertainty that comes with embracing a new and different approach to training and learning. A number of e-learning systems are changed higher education completely. There are five main participants- authors, students, leaders, teachers and Administrator (system administrators) play role in e-learning.

#### A. Organization of the paper:

The rest of this paper is organized as follows. In section 2 we will present the related work, followed in section 3 by description of proposed system how the system work for

learner. In section 4 we will discuss detail flow of modules. We conclude this paper by discussing our current state of research, interesting application of our research approach, and future work.

### II. RELATED WORK

- Archival analysis is the method of exploring existing literature and documents for finding and practice in the subjects. But it does not command students to regularly visit and do studies.[4] Learner faces problem in finding desired content of languages or subjects.
- Many of applications work onto e-learning which provide all data but learner need to search if they want to learn any language. Courses were not given to meet learner satisfaction.
- Courses were not scheduled in the applications and they not send alert mails if learner not regular to the site.

### III. PROPOSED SYSTEM

- SCORM define course contents and it can maintain user record like add/activate/deactivate, link users to the course and send mails with link. Schedule online test for particular course for selected users, result declaration, mapping each question to complexity (high/medium/low), multiple attempt for users.
- System will send alert emails to users on schedule dates. The system keeps track of who has opened which training and how long they have been on the page.
- This system will monitor the attendance if training send reminders to those user who have not opened the training yet. It provide test on user demand in very efficient way and keep track of their actions.

Proposed system will have following modules:

- Training Course Definition
- Linking Training with Users
- Training Process
- Online Test
- Reports

Training Course Definition

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

Linking Training with Users

- Administrator will have 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.

Training Process

- Administrator can activate/de-activate 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 date
- Users will open the link and view training content
- System will keep track of who has opened which training and how long they have been on the page
- When user is finished with training he/she can attend the test
- User can go through the training content as many times as he/she wishes
- On end date system will send final notification
- Once end is over no one will have permission to view the content till the same training is opened again.(Exam period)

Online Test

- Question Bank: System will have facility to define question bank for each training
- Administrator will have rights to define Exam and link user with exam
- On target dates users will appear for exam. As discussed all qualified users from all locations will appear for exam at predefined date & time.
- Each user will access the Test paper using his/her desktop.
- To avoid copy in exam system will prepare different Test Paper for each user.

Reports

- Who has been assigned which course
- Who has viewed which course
- Who has attended online test and what was result.

V. CONCLUSION

This paper study has attempted to cover with focus on online training. The efficiency may be filled by using SCORM. SCORM changes its behavior different thing to different user. Decision took to learn, online learning will be provided by the LMS in which people wants comfortable environment of study. Through this paper we trying to focus on online courses and it will be beneficial for learner. Learner can take advantage of this course from anywhere and anytime. It will make e-learning system more interactive for learner, researchers need to take decisions at every level of learning cycle.

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IV. FLOW DIAGRAM

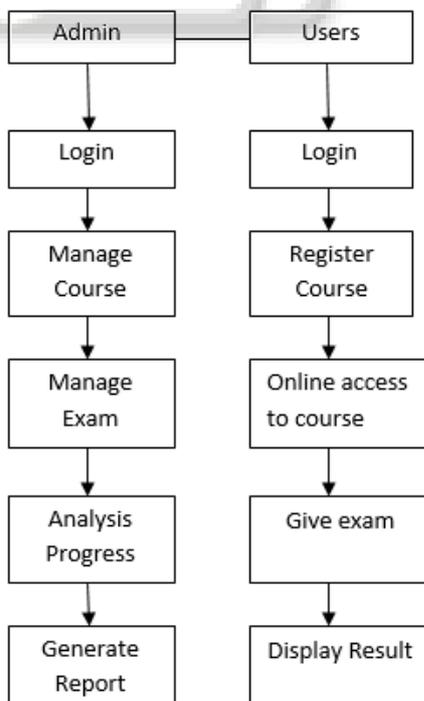


Fig.1: