

# A Review and Proposal of an Innovative Approach for E-Learning Platform

Hariom Tripathi<sup>1</sup> Mohd Faizan Alam<sup>2</sup> Harendra Bhati<sup>3</sup>

<sup>1,2,3</sup>SCSE, Galgotias University, Uttar Pradesh, India

**Abstract**— Technologies are changing rapidly and the same in the field of Education. Now-a-days, people are moving towards Online Learning Platforms or Online Resources. An open source, such as Moodle e-learning platform, has been implemented in many Universities like Galgotias University, Greater Noida. Multiple education departments and learning institutions have started the implementation of e-learning. Through this paper, we want to motivate the undergraduates and postgraduates and even school students about the interactive features of E-Learning. Now-a-days, E-learning are changing the whole education system which results in very preferred subjects for researchers. This E-learning brings various research works. Now-a-days, it is the one of the most trending research for researchers.

**Keywords:** E-Learning, Higher Education, Motivation, Web-Based Education, Moocs, Online Learning

## I. INTRODUCTION

Now-a-days, Web-based learning is used as another option to face to face education or to feel like offline education. According to a survey, use of e-learning increases with the increase in number of students. This data of students and use of e-learning motivate educators to exert a lot of effort to help the learners to get interactive content which is multimedia as it has been proven that it has a very significant effect on the process of learning. The impact of blogs and wikipedia has also investigated on students and learners collaboration and it was found that they have a positive effect. E-learning platform has been introduced as a best tool in the learning process specially in the majority of the international universities worldwide. The term 'E-learning' is defined by "any learning that involves use of internet or intranet." A year later, the definition is more generalized by indicating that it is "anything that is delivered or enabled or mediated by electronic technology for purpose of learning". This field of E-learning has gained increasing popularity for the right reasons. Over the last few years, learning software has seen leaps in offering a complete learning experience that is fun, interactive, and ultimately engaging. E-learning platform is an integrated set of interactive online services that provide trainers and learners and others involved in education with information and tools and resources to enhance education delivery and management. Learning Management system (LMS) and moodle are the type of E-learning platform.

Although the e-learning tools do exist for over a decade, the educational research field has not given attention to the study of student motivation under the effect of e-learning. E-learning has grown in importance as an educational tool like technology has progressed over the years. Interestingly, there have been more efforts at advancing technology than on attempting to understand the needs and learning styles of individual learners and instructional design. The 21st century has seen the rapid progress with such things as the online learning.

One of the main reasons for this is that it gives students much access to education in comparison to offline methods of teaching as it gives facility to students that they can continue study from anywhere and at any time as well as being given the option to study part-time or full-time. E-learning has transformed the educational sector by enabling students.

E-learning is very helpful for those learners who has the thirst of knowledge and offers online content that can be delivered for the learner at anywhere, anytime and any age through a wide range of e-learning solution while compared with traditional learning system.

## A. Requirement to Innovate the New E-Learning Platform

### 1) Requirement

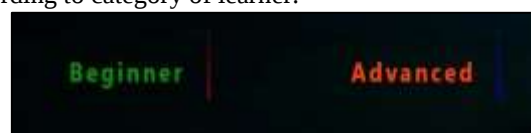
After study and evaluation of many online learning platforms, we come to know that there must be one E-learning platform which contains all the contents related to that topic.

### 2) Solution of Requirement

We designed an E-learning platform which contains all the books related to Computer Science e.g. books related to coding, books related to web technology, books related to android development, books related to machine learning, etc. It is for school students as well as for undergraduates, postgraduates or for those who are interested in computer science and want to learn something.

## B. Specialty

This e-learning platform has feature that if you are beginner or at advanced level for both categories contents are available according to category of learner.



It gives facility to students that first they can go through the contents of that particular book after that they can download it. For Contents, we just have to put cursor on that particular book and we can see the contents of the book.

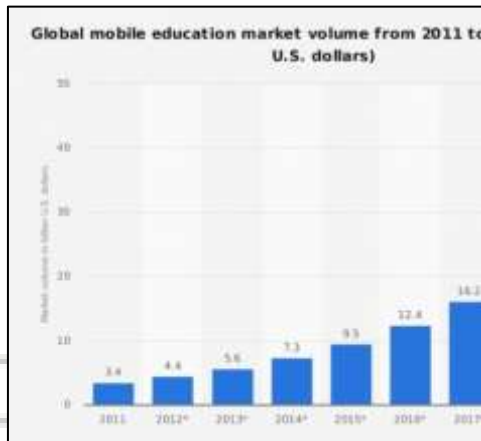


All the E-learning platforms are providing courses for which you have to paid a little amount of money but as a student it is not necessary that a student can buy the books. But This E-learning website will be the platform where all the Computer Science Engineering and programming books can be downloaded with free of cost without searching all over the internet pages.

If you want to buy any particular book, you can buy directly by just clicking on icon “CLICK HERE TO BUY” present on that book icon.



### C. Progress of E-Learning Platform



### D. Merits of Proposed System

- 1) Online Learning accommodates everyone's need
- 2) Quick delivery of Lessons
- 3) Reduced Costs
- 4) Effectiveness
- 5) Less impact on environment
- 6) Books can be taken any number of times.

### E. Project Modules

#### 1) Programming

In programming section, you will find all the programming books related to computer science engineering. Books are available for both categories:- Beginner as well as advanced.

#### 2) Web Development

In web development section, you will find all the web development books related to computer science engineering. Books are available for both categories:- Beginner as well as advanced like PHP, HTML, CSS, React JS, JAVASCRIPT, JSON, etc.

#### 3) Mobile Development

Mobile development is the process by which a mobile app is developed for mobile devices, such as personal digital assistants, enterprise digital assistants or mobile phones.

In mobile development section, you will find all the mobile development books related to computer science engineering. Books are available for both categories:- Beginner as well as advanced e.g., Android programming, Kotlin, Flutter, Swift, etc.

#### 4) Cyber Security

Cyber Security or information technology security are the techniques of protecting computers, networks, programs, and

data from unauthorised access or attacks that are aimed for exploitation.

In this section, you will find all the cyber security books related to computer science engineering. Books are available for both categories:- Beginner as well as advanced e.g., ethical hacking, email hacking, network hacking, Linux.

#### 5) Database

A database is an organized collection of structured information, or data, typically stored electronically in a computer system.

In database section, you will find all the database books related to computer science engineering. Books are available for both categories:- Beginner as well as advanced e.g., SQL, MONGO DB, MySQL, etc.

#### 6) Framework

A framework or software framework is a platform for developing software applications. In this module, you will find all the framework related books. Books are available for both categories:- Beginner as well as advanced e.g., entity framework, .NET framework, Spring MVC etc.

#### 7) XML

Extensible Markup language (XML) is used to describe the data. In this module, you will find all the XML related books for computer science engineering. Books are available for both categories:- Beginner as well as advanced e.g., XML, XPATH, XQUERY, etc.

#### 8) FOLLOW

In this module, you have four options to contact or need any from website team.

You can contact through Facebook, LinkedIn, Instagram and YouTube.

#### 9) Beginner

In this module, you can download or see all the books only for beginner level.

#### 10) Advanced

In this module, you can download or see all the books only for advanced level.

## II. RESULTS AND INTERPRETATION



