

# E-Learning Approaches and Models toward Building Integrated Framework

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**Abstract**— Innovation progressions have changed how distance learning is led. E-learning stages are keeping on advancing and more sorts of items are coming to market all the time. The internet and mobile learning permits students to stay in contact with other students anyplace and to finish homework, check evaluations. The proposed paper will survey three current innovation items that offer portable learning. Prezi, Blackboard, and Moodle will be explored and the qualities and shortcomings of every item will be explained.

**Index Terms**— E-learning stages, distance learning, communication.

## I. INTRODUCTION

Distance education has a history that spans almost two centuries [1] and this time period represents significant changes in how learning occurs and is communicated. From basic correspondence through postal service to the wide variety of tools available through the Internet, society has embraced new forms of communication through the years. One such form, online learning, is known to have a history of access beginning in the 1980's whereas another term, referred to as e-Learning, does not have its origins fully disclosed [2]. As researchers and designers utilized these emerging technologies, we find that a relaxed use of the terminology makes it difficult to design and evaluate similar learning environments without understanding the specific characteristics [3]. The design of different types of learning environments can depend on the learning objective, target audience, access (physical, virtual and/or both), and type of content. It is important to know how the learning environment is used, and the influences of the tools and techniques that distinguish the differences in learning outcomes as the technology evolves.

A) Prezi is an apparatus that permits clients to make advanced presentations without the requirements that commonplace presentation programming, for example: Power point. Prezi "takes into account both a direct and a free-streaming presentation of a story line" [4]. The standards of Prezi are a lot of people, however a percentage of the highlights incorporate; Creating exceptionally adjustable presentations, electronic get to that permits clients to chip away at their presentations anyplace they have web network, and the capacity to effortlessly impart presentations for gathering coordinated effort. Clients of Prezi can get to their

presentation online and from their nearby machine, this is something that has not characteristically been offered in a presentation programming past to Prezi. It is a compelling presentation apparatus, yet it has a few ruins that may meddle with some client's capacity to utilize the product. Clients that are not happy with working with distinctive media sorts and have a higher expertise level by utilizing sites may experience issues exploring the Prezi environment. This can be overcome by proceeding with utilization of the item. An alternate conceivable issue with Prezi is that not all gimmicks are accessible on the free membership and the expense for included peculiarities may not be plausible for a few clients [4]. It can be supportable as an instructive instrument because of the solid presentation devices that it offers. Teachers can utilize Prezi as a part of its full structure for nothing by giving the organization documentation of their scholastic alliance. The Convenience of Prezi is something that most present teachers will discover useful because of its generally instinctive interface.

B) Moodle is a full working substance administration framework. Moodle permits teachers to incorporate full classroom content with one oversight utility. Moodle takes into account full intelligence in the middle of understudies and teacher through the utilization of visit sheets, numerous sorts of archives, and different instruments. The utilization of Moodle for separation instruction has permitted understudies to all the more effortlessly work together and collaborate non-concurrently through the web as opposed to through features or through the mail as has been carried out previously [5]. The qualities of Moodle are tremendous, from permitting completely intelligent web figuring out how to give this engineering for free. Moodle is an open source programming, and all things considered, it is free for anybody to utilize. Moodle takes into consideration snappy and simple understudy connection and cooperation. Understudies can visit, offer reports, and take tests and tests from one focal range. Instructors can fabricate an immersive situation that concentrates on understudy adapting instead of depending on various items to give the same intuitiveness [5].

Moodle has a few disadvantages that can degrade a few teachers from utilizing the item paying little respect to being free. One of the downsides is that Moodle can oblige substantially more of an opportunity to create fitting learning exercises because of the measure of alternatives it offers. As instructors get more adroit with utilizing the item the time to set up classes will diminish, however, there will dependably be a more drawn out learning bend than the run of the mill course outline. An alternate significant downside for Moodle is that it obliges a live server on the web and can be a bit hard to get it set up and running successfully. This issue can turn into a substantial issue as there is little backing offered outside of data found on the web because of the way that the item is

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free [5]. The ease of use of Moodle is great because of the way that it has an instinctive dashboard that permits clients to effortlessly make classes and also furnishing teachers with just the instruments they require by permitting diverse modules to be introduced on an as required premise. Maintainability for Moodle is uncommon because of the way that it is open source. Open source programming is planned and created by clients everywhere throughout the world and is not possessed by a particular substance, because of this, proceeded with the advancement of the item is guaranteed.

C) The Board is an innovation that is like Moodle. Blackboard is a full instructive administration, programming that gives instructors a set of devices to give powerful internet learning. Board additionally incorporates a portable application that permits clients to get to their classroom surroundings from any gadget that has web network, including cellular telephones. The Board incorporates apparatuses, for example, talking instruments, archive imparting, feature's reconciliation, test creation, and numerous other instructive devices to help understudies get to be included in a completely drenched instructive experience [6]. Blackboard has numerous qualities, including the way that it is a completely created instructive administration application. The Board gives instruments to setting up any sort of movement that an online course would require. Help for Blackboard is an alternate quality as the supplier of the item gives any help needed to set it up and keeping it running. Upgrades for Blackboard are frequently distributed alongside new apparatuses as innovation keeps on advancing. An alternate quality of Blackboard is simpler to explore interface that makes the learning bend for the understudies utilizing the item to be short [6]. The Board has a few shortcomings that can influence the utilization of the item by instructors. The Writing board is an exclusive programming and as being what is indicated, the advancement of the item is controlled by the organization that possesses the item. The Advancement of new devices are not as changed as open source programming. Slate is likewise not free, and all things considered the expense to actualize the item can turn into an issue for an organization with a constrained plan. Execution of Blackboard can be an extremely far reaching process and must likewise be run on servers that are live on the web expanding the expense to run the item significantly further [6]. The ease of use of Blackboard is generally solid as the item is not difficult to explore for understudies. Teachers can give instruments to understudies that incorporate numerous sorts of learning components in this way, giving everything a teacher needs in one area. The maintainable quality of Blackboard is solid as the designers keep on developing new devices as engineering advances. The items gave by Blackboard are constrained just by the expense to create them.

### II. EXISTING E-LEARNING APPROACHES AND THEIR PEDAGOGICAL ORIGINS

We are now in a position to review the landscape of e-learning models against the pedagogical background described above. The 'modal pedagogy model' would describe how to engage the learners in meaningful tasks, give rapid feedback, encourage reflection through dialogue with tutors and peers,

align assessment, and would encourage through discussion the creation of a community of learners. A modal e-learning model would describe how technology would achieve each of these functional stages.

This paragraph will consider a range of e-learning approaches in relation to the three pedagogical perspectives: instructional systems design, constructivist and communities of practice. The e-learning list is by no means exhaustive and provides a starting point for deeper reflection of how pedagogy can be mapped to teaching and learning practice when using technology-enhanced tools and systems. Few current e-learning examples are pure derivatives of the three pedagogical frameworks described above. Most exhibit features from more than one perspective. It is also unclear exactly what counts as an e-learning model. The candidates range from very broad teaching frameworks, within which e-learning is assigned functional roles, to technically oriented accounts which focus primarily on tools. However, it is possible to consider e-learning models in broad classes, and to map these onto our pedagogical strands. Although we have described the development of pedagogical thinking in three broad strands, when mapping onto e-learning models we have found it helpful to classify the cognitive/constructivist into a further subdivision. This distinction is between those approaches which focus on the individual dialogue between a teacher and a learner, and those that support group learning: distinguishing a focus on individual cognition from a socio-constructivist emphasis on the group.

### III. DATA MINING FUNCTIONALITIES FOR E-LEARNING DOMAIN

In the e-learning domain there are two main groups the learners as well as the learning providers whether private training companies, governmental organization and local authorities providing training for their courses and make them accessible online via the intranet. As for learners, databases should store all personal details including name, gender, address, and educational-relevant details as qualification .moreover having information like work experience and courses of interest will be great value to be able to predict future behavior of different classes of employees also other information would be valuable for data mining tool in order to discover hidden pattern by building intelligent models based on the huge amount of data [7].

### IV. CONCLUSION

The main goal of this report was to describe the assumptions about learning that underpin current practice models of e-learning. We have attempted to show how these models and techniques use principles which have been derived from the three broad theoretical perspectives: associations, cognitive and situate. We have also attempted to frame them within the familiar curriculum design model, with its stages of describing intended learning outcomes, designing them, assessments to measure how well they have been achieved, and an evaluation of whether the stages are properly aligned.

REFERENCES:

- [1] Spector, J. M., Merrill, M. D., Merrienboer, J. V., & Driscoll, M. P. (2008). Handbook of research on educational communications and technology (3rd ed.). New York, London: Lawrence Erlbaum Associates
- [2] Mohammed, M. A., Hassan, M., Fuad, A., & Jaber, M. M. Follow up System for Directorate of Scholarship and Cultural Relations in Iraq.
- [3] Phipps, R. A., & Merisotis, J. P. (1999). What's the difference? A review of contemporary research on the effectiveness of distance learning in higher education. Washington, DC: The Institute for Higher Education Policy.
- [4] Perron, B.E. (2010). A Review of a Presentation Technology: Prezi. *Research on Social Work practice 000(00)*. P. 1-2.
- [5] Lin, T. (2011). Review of Moodle 2.0. *Language Learning & Technology 15(2)*. P. 27-33.
- [6] Blackboard.com. Retrieved on April 21, 2012 from [www.blackboard.com](http://www.blackboard.com).
- [7] Jaber, M. M., Ghani, M. K. A., Suryana, N., Mohammed, M. A., & Abbas, T. Flexible Data Warehouse Parameters: Toward Building an Integrated Architecture. DOI: 10.7763/IJCTE.2015.V7.984