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Abstract

The concept of learning at any time and any place is unable to get fully implemented yet. The reason is that the currently available e-learning system requires a personal computer to access it. Moreover, users need to find convenient place to access the e-learning. In order to implement the concept, an applications of electronic distance learning that run on mobile device, such as cell phone, personnel digital assistant (PDA), or smart phone, is needed. The application is called mobile learning (m-learning). A different approach to design m-learning application is required due to the differences in mobile device and personal computer nature. This study implements Code Igniter (CI) framework that support model-view-controller (MVC) programming technique in order to decrease application development time. It may happen since Code Igniter provides a set of libraries that provides basic functionality to solve common problems. Using Code Igniter, developers no longer need to develop application from scratch and may directly focus on the codes that build m-learning application functionality.

Refer

ences

- Hidayat A, Purwanto H. 2013. "Designing Application of M-Learning based on

Content Management System". International Journal of Computer Applications 80(7):7-10, October 2013

- Trifonova A. , Ronchetti M. 2003. A General Architecture for M-Learning. Technical Report DIT-03-081, November 2003.
- Lehner F, Nosekabel H, Lehmann H. 2003. Wireless E-Learning and Communication Environment: WELCOME at the University of Regensburg. E-Service Journal;2:23-41.
- Vuksanovic, I. P and Sudarevic B. 2011. Use Of Web Application Frameworks in the Development of Small Applications. In Proceedings of MIPRO, the 34th International Convention.
- Ally M, Lin F, McGreal R, and Woo B. 2005. An Intelligent Agent for Adapting and Delivering Course Materials to Mobile Learners. Proceeding of the mLearn2005. 4th World Conference on Mlearning. Cape Town, South Africa.
- Ferl website. 2003. Introduction to Mobile Learning by Karen Wood. Available online: <http://ferl.becta.org.uk/display.cfm?page=65&catid=192&resid=5194&printable=1> (accessed 09/04/12)
- Holzinger A, Nischelwitzer A, Meisenberger M. 2005. Mobile Phones as a Challenge for m-Learning : Experiences with the Mobile Learning Engine (MLE) using Mobile Interactive Learning Objects (MILOS). Proceeding PERCOMW '05. Third IEEE International Conference on Pervasive Computing and Communications Workshops. Washington DC, USA;307-311.
- Attewell, J. 2005. From Research and Development to Mobile Learning: Tools for Education and Training Providers and their Learners. Proceeding of the mLearn2005. 4th World Conference on Mlearning. Cape Town, South Africa.
- Sidik, B. 2012. Framework CodeIgniter. Bandung : Penerbit Informatika.

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