EDUMCA: AN APPROACH TO EDUCATIONAL MOBILE CONTENT ADAPTATION

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ABSTRACT: As the variety of mobile devices connected to the Internet grows, there is a corresponding increase in the need to deliver content tailored to their heterogeneous characteristics. At the same time, we watch to the increase of eLearning in universities through the adoption of electronic platforms and standards. Not surprisingly, the concept of mLearning (Mobile Learning) appeared in recent years decreasing the limitation of learning location with the mobility of general portable devices. However, this large number and variety of Web-enabled devices poses several challenges for Web content creators who want to automatic get the delivery context and adapt the content to the client mobile devices.

In this paper we analyze several approaches to defining delivery context and present an architecture for deliver uniform mLearning content to mobile devices denominated eduMCA - Educational Mobile Content Adaptation. With the eduMCA system the Web authors will not need to create specialized pages for each kind of device, since the content is automatically transformed to adapt to any mobile device capabilities from WAP to XHTML MP-compliant devices.

Keywords: Content Adaptation, Education, Interoperability, mLearning, Mobile, eLearning.