Building Web Applications without a Database System

Donald Kossmann
28msec Inc. / ETH Zurich
Zurich, Switzerland
donald.kossmann@inf.ethz.ch

ABSTRACT

Publishing data on the Web has become a commodity. Building, deploying, and operating a Web application, however, are still difficult tasks. This talk argues that one of the reasons is the use of database systems. While such database systems provide a great deal of features, they are hard to deploy and manage, do not scale, and dictate the architecture of the whole application. This talk proposes a new data management architecture and shows how XQuery can be used as a programming language in order to build applications on such a data management infrastructure.

ABOUT THE AUTHOR

Donald Kossmann (28msec Inc. / ETH Zurich, Switzerland). Donald Kossmann is a professor for Computer Science at ETH Zurich (Switzerland) and CEO of 28msec Inc. He received his MS from the University of Karlsruhe and his PhD in from the Technical University of Aachen. He held positions at the University of Maryland, the IBM Almaden Research Center, the University of Passau, the Technical University of Munich, and the University of Heidelberg. He is a co-founder of i-TV-T (1998), XQRL Inc. (acquired by BEA in 2002), and recently 28msec Inc. (2007). His research interests lie in the area of database and information systems; in particular, Web-based information systems and database applications.