

Framework for Automatic Generation of Graphical Layout Compatible with Multiple Platforms



JEŽEK, P., MOUŽEK, R., FRANC, Y.L., WACHTLER, T., GREWE, J. Framework for Automatic Generation of Graphical Layout Compatible with Multiple Platforms. In *VL/HCC 2013*. Piscataway: IEEE, 2013. s. 193-194. ISBN: 978-1-4799-0369-6

Most data management systems include a database in the backend to store data and the associated metadata and a web-based user interface to access and modify the data/metadata. User interfaces are specifically tailored for representing a unique database structure and cannot be easily reused for other database structure. Furthermore the generated web-based layouts are often not compatible for other platform such as desktop applications or mobile devices. We are proposing here a general framework for designing a graphical layout compatible with different platforms including mobile devices and independent of the database structure. This framework is based on a model-driven approach using annotations of database entities that will be used to create desired layouts. A use case study is presented on a database designed for neuroscience experiments.

15.09.2013

San Jose