

# Building Smart Documents Based on the XML Technology

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## ABSTRACT

The invention of the Internet creates an abundant supply of information and a great variety in services it can provide. There is no doubt that modern life has already been transformed by the great impact of Internet. However, there are still some existing problems waiting to be overcome if we carefully examine the current usage of Internet. Network connection has not extended to each single user yet. There are still places where Internet connection is not possible. The fact that many files can only be opened by certain software causes a great inconvenience to many users. The content of files cannot be changed according to individual needs. This research brings out the idea of XML based smart documents. Through XML functions of self-description, information flowing on the Internet can be packed. Files can actually be combined into a document that can execute by itself with the help of executable controlling interfaces. This executable interface generates XSL according to individual needs. The retrieving technique of XSL then converts the packed information into certain files and create customized contents that can be extracted and turned into file forms that correspond with software present in each individual computer.

Keywords : Smart document ; XML ; XSL ; Customization

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