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A Proposed Software Description Language for Representing Program Logic in XML

Khaled Mahmoud

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Master's Thesis from the year 2012 in the subject Computer Science - Applied, grade: none, - (Middle East University), course: Information Technology , language: English, abstract: This thesis proposes a software description language to represent the source code of C++, Java, and VB.NET in the Extensible Markup Language. The similarity of semantics between these languages enables representing the source code in a form such that both, the source code and logic can be easily shared and reused between these languages. By performing semantic and syntactic comparison between C++, Java and VB.NET, the proposed language has been designed to include the similar and identical features and language constructs. For every adopted language construct, a corresponding construct in the proposed language has been developed. The validity of the proposed language has been investigated and proved theoretically by conducting a semantic comparison between the three languages and experimentally by developing applications to convert source code from Java into the proposed language and from the proposed language into VB.NET. Validation cases have been designed to include various programs such as sorting, searching and also to include the most used programming constructs in the three languages. Source code of the validation cases have been converted from Java into the proposed language, and from the proposed language into VB.NET. Java and VB.NET programs of the validation cases have been executed and results compared. The results were identical for all conducted experiments. The proposed language has some major benefits in the conversion between programming languages as an intermediary language. It may also be used in the integration between systems as it enables sharing of programming logic at runtime. Existing integration technologies only enable the sharing of data between various systems. This thesis is not concerned with adapting programming languages libraries and functions. Future wor

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