

University of Sofia St. Kliment Ohridski

Msc Thesis: Object Relational Mapping

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Course: Informatics

Specializaion: Software technologies

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Key Words: Automatic persistence, Object-Relational Mapping, Automated work with database, source code generation, SQL script generation.

Annotation: The automated work with database is a common problem and a lot of time has spent solving it. The trend is to miss the SQL in the programmer source code. Instead of SQL a new technique can be used. The mistakes have to be discovered on compile time or at least not to threaten the database consistency.

The Msc Thesis goal is to на дипломната работа е да се investigate and show with examples the Object Relational Mapping techniques.

After having read this thesis the reader should be able to answer the following questions:

How can we represent the objects' data as relational data?

How can we automate that?

How much efforts will we need to implement our own ORM system and what benefits and disadvantages can we expect?

The Thesis describes different ORM system and basic techniques for ORM. It tries to make a final estimation on these techniques. It gives an idea of ORM architecture concerning the reusability as a prior goal.