ABSTRACTION

Design phase is an important phase in the development of software. Editor Database Design, which is used to design database and manipulate relationships among data, it is necessary at this stage. However, diagram is not enough to boost the process of database construction. Automatic transformation plan to form Data Definition Language (DDL) greatly accelerate the construction process.

DDL generation integrated into the data model editor NastySteroid that created from previous studies. NastySteroid apply the concept of round-trip engineering in realtime, so that changes that occur at the level of the data model will instantly update the other data model level. DDL generated from objects that are designed at the level of physical data model of NastySteroid includes tables, references, constraints, triggers, functions, procedures, and indexes. The technology used to build the DDL is Framework .Net with C# programming language. DDL generation design uses the concept of design pattern like Visitor pattern and Strategy pattern in order to have a high ability to minimize development effort alterations or additions to the code when the developer adds a new target database.

The features that have been implemented will be tested for correctness, usability and effort change of Target Database maintenance.

Keyword : CASE Tool, Physical Data Model, Data Definition Language Generator, .NET Framework