Imp

Yet another .NET ORM

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Version : **0.1**

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# Introduction

Just a .NET ORM similar to Entity Framework.

# Scope

Specification of Imp including:

* ImpContext
* DataSet
* Schema Mapping and Entity Configuration
* Entity
* Criteria
* Query with LinQ
* Insert/Delete/Update
* Transaction
* DDL/MigrationManagement

# Minimal requirement

* Windows Vista or higher.
* .NET 4.5

# Technical Specification

## Overall Architecture

## Imp Context

Context is the object which:

* + Manages access to back-end database. It manages database connection (System.Data.IDbConnection). If the connection state is Closed, the Imp context should handle the connection automatically, means it will open and close the connection automatically. Otherwise, developer is responsible for managing the connection by himself/herself.
  + Maintains database schema mapping and entity configuration (will be described in section 4.3).
    - Database schema mapping is the mapping between database and conceptual Entity. It tells which table, column that an Entity’s property is mapped to.
    - Entity configuration is the settings of conceptual Entity. For example: computed fields, auto Id field, concurrency token fields.
  + Exposes API for managing transaction (System.Data.IDbTransaction).

Not like Entity Framework, Imp does not handle change tracking. Updating/Deleting/Inserting entities are up to user.