

Abstract

Dependency Injection is one of method that use to decreasing dependency value on the application base on object. Implementation of dependency injection can't be part with application design using design pattern. One of main important thing in design of large application is separating between view (user interface) and implementation (business logic). The purpose of separating between part of view and implementation is to decrease dependency between parts on the application. Independent of modules making reuseable modules become possible.

In this report I developed an application that implement dependency injection combine with design pattern and compare it with other application that only using design pattern through a set of test. This application is developed with Struts Framework in user interface layer, ORM Ibatis in persistent layer, running in Apache Tomcat (Version 5.5.14) and using MySQL (Version 5) database with Java (JDK 1.5) as it's programming language.

The methology used in this report are : literature study, application design and implementation, analysis, and conclusion.

The research result show us that application developing using design pattern and dependency injection will reduce component dependency anda make application easier to maintain.

Keywords: dependency injection, setter injection, design pattern, dependency.