A REFERENCE MODEL FOR THE DESIGN PATTERN AUTOMATION

A PROJECT REPORT PRESENTED BY

N.G.M.G. Bandara

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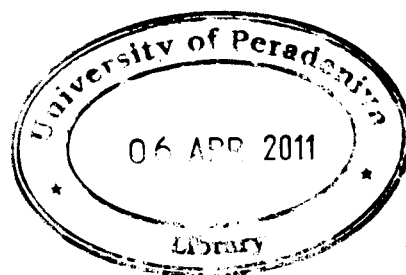
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N.G.M.G. Bandara

Postgraduate Institute of Science,

University of Peradeniya,

Peradeniya,

Sri Lanka.

In this report a reference model for Design Pattern Automation is presented. Implementation of this reference model can give solutions to automatic code generation from the design patterns.

Since design patterns provide solution to recurring problems, developers need to implement the patterns according to problems. According to the problem sometimes developers need to implement the patterns repeatedly each time they are applied. Code reuse is difficult task as well as time consuming activity. To address these difficulties, Automation Tool for design patterns is presented.

The reference model includes two components:
- Functional model
- Architectural model

Functional model describes the functionality of the system and architectural and data models are designed in such a way that the functionality can be achieved.

Code Generator is the major part of Design Patterns Automation Tool. To implement this approach Apache Template Engine Technology is used. The process of working of this Template engine is described in this report as well.