6 Summary

If you can't explain it simply, you don't understand it well enough

(Albert Einstein)

Contents

A brief summary about the content in this thesis will be presented in this chapter. Furthermore, an outlook with proposal idea for future research on this topic is given as several points of future work plan.

6.1 Summary

The goal of this master thesis is to enhance the MeDIC information systems focusing on the entities variability issue. The MeDIC is a metric management software system to define, maintain, document and develop metric that is currently developed by the research group of Software Construction (SWC) of the RWTH Aachen.

The variability in this work is focused on metric entity variability that occurs from the specification process of metric entity. The first concern of the variability is to clarify the definition of variability used in this work distinct from common implementation of variability in Software Product Line industry (the specific definition of entity variability is given at 3.2.1.). Modeling the variability is the main challenge. Several literature studies and researched have be conducted to find the best solution model; start with finding the related works, did some preliminary works to find best model, and finally applied the model solution with existing metric entity.

Among others variability techniques, decorator pattern is chosen as the pattern solution to model entity variability in our domain. Decorator pattern describe a model that can flexibly present the metric as the reality, where the user can propose and define the metric dynamically. In more detail, decorator pattern allow an object to add many features and function dynamically, especially when the combination of features could not be predicted in design time. As we mapping to our core metric entity, decorator pattern can represent the variability.