

Abstract

Design by Contract is a method for developing software to check reliability of a program/software. This method includes precondition, postcondition and invariant. Java Modelling Language is a formal behavioral interface specification language for class and interface specifically by adding annotation to java file. Java is multi platform language, but java is not made to handle DBC specially.

This final project analyze how to implement Design by Contract using Java Modelling Language. As a case study, this final project use Flower Shop application. This program is made with Java and JML 5.6. Implementation of DBC JML in application can specify field and behavior of method. In addition, errors that can happen in application can handle, hence one can make sure the correctness of the application.

Key Word: *Design by Contract, Java Modeling Language, Java.*