

Coding Standard Violation Detection by Pattern Analysis

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Declaration

I hereby declare that this is my own work and has not been submitted in any form for another degree or diploma at any university or any other institution of tertiary education. Information derived from the published or unpublished work of others has been acknowledged duly in the text and a list of references is given as per the standard.

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Abstract

Today we live in the era of Information Technology. The success of any other industry is linked with the way how they use Information Technology to handle their operations. In order to fulfill that requirement, presently there are various kinds of software have been developed. Developing software is not that much of an easy task since it has a development lifecycle to build successful software. However, there are some critical issues that we can identify when developing a software project. Software complexity, maintainability, and enhancement are the major issues which we can highlight in our literature review section. Poor coding standard drive makes the most of the software projects complex and extremely difficult to enhance and maintain.

In this thesis we have proposed the coding standard violation detection mechanism by pattern analyzing. With this approach, a standard coding guideline is kept through an online reference using pattern analyzes mechanism. This tool helps the developer to do the developments through a standard guideline. It will also prevent violations done by the programmer. In this tool, it would provide a facility to add a coding standard through the online reference. Then the proposed tool will take it as the model to follow the standard. Whenever the developer violates the standard the error will be shown.

Table of Content

1.	Introduction	1
1.1	Prolegomena.....	1
1.2	Background and Motivation.....	1
1.3	Problem in Brief.....	2
1.4	Aim and Objectives.....	2
1.5	Proposed Solution	3
1.6	Summary	3
2	Developments and Challenges in Software Development Lifecycle	4
2.1	Introduction	4
2.2	History of coding standard violation and their effects.....	4
2.3	Usage of Pattern analysis	5
2.4	Encoding and Decoding in String matching	6
2.5	Usage of encoding and decoding	6
2.6	Existing Tools.....	7
2.7	Challenges and Gaps Identified by the Literature Review.....	8
2.8	Problem Definition.....	8
2.9	Summary	9
3	Coding Standard Violation Detection by Pattern Analysis	11
3.1	Introduction	11
3.2	Hypothesis.....	11
3.3	Input	11
3.4	Output.....	11
3.5	Process.....	12
3.6	Features	14
3.7	Summary	14
4	Design.....	15
4.1	Introduction	15
4.2	High-Level Architecture of the proposed solution.....	15
4.3	Database Design.....	16
4.4	Backend programming	16
4.5	Summary	17
5	Implementation.....	18

5.1	Introduction	18
5.2	Tools and Technologies used to Implement the proposed solution	18
5.3	Fetching the standard guideline from online reference	18
5.4	Database implementation	20
5.5	Capture the developer code	21
5.6	Identify the violations using Pattern Analysis Mechanism.....	22
5.7	Summary	22
6	Evaluation.....	23
6.1	Introduction	23
6.2	Purpose of evaluation	23
6.3	Evaluation method.....	23
6.4	Data collection.....	24
6.5	Evaluation of results.....	25
6.6	Summary	25
7	Conclusion.....	26
7.1	Introduction	26
7.2	Overall Conclusion.....	26
7.3	Objective Wise Conclusion.....	27
7.4	Limitation	27
7.5	Further Works	27
8	References	28
9	Appendix-A	31
10	Appendix-B	32
11	Appendix-C	34
12	Appendix-D	35
13	Appendix-E.....	38

List of Figures

Figure 1- Leading reasons for software project failure according to developers worldwide, as of 2015	2
Figure 2-Software Development Life Cycle.....	4
Figure 3 – Proposed Pattern Analysis method.....	13
Figure 4-High-Level Architecture	15
Figure 5 - Interface to fetching the guideline from an online reference	19
Figure 6- Generated patterns for the online guideline	20
Figure 7 - Set of database tables	21
Figure 8 – Interface to capture developer codes	21
Figure 9 - Possiblescenarios to identify coding standard violations.....	23

List of Tables

Table 1 – Existing tools and gaps.....	8
Table 2- Database Table and Purpose.....	16
Table 3 - Sample code segment generated by the proposed tool.....	21
Table 4 -Sample Pattern occurrence in both guideline and the developer code	22
Table 5 - Summary of Evaluation Forms.....	24
Table 6 - Result of Evaluation Form.....	25