

Source Code Quality Education and
Improvement Tool
CPSC 490 Project Proposal

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Abstract

Motivation

Deliverables

Internal Representation of Code

The first challenge that will need to be faced is the task of converting source code which begins as simple text files into manipulable and useful internal representations. To do this I will make use of available lexical parsers for certain programming languages. These lexical elements will then need to be parsed into the main structures that will be analyzed. I will need to first create representations for the smallest elements, variables. Then functions, and finally "Classes" for example I will need to create a representation for a "Class" or "Object." This will need to include both

Specific Checks

Analysis Display

Open Source Analysis