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| Performance Tools Report |
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| 04/06/21- 11/06/21  ICED COFFEE  Authored by: Bayley Wise and Kyle Chamberlain |

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# 1 Introduction

This is a performance report for the movie database and website project for Acme Entertainment Pty Ltd. The report will touch code optimizers and what they are and performance tools and what they are.

# 2 Code Optimizers

Code optimization is a technique, which tries to improve the intermediate code by making it consume fewer resources (for example. CPU, Memory) so that faster-running machine code will result. Optimization of the code is often performed at the end of the development stage since it reduces readability and adds code that is used to increase the performance.

An example of a PHP code optimizer is CodeSniffer. CodeSniffer sniffs through the source code and detects violations in syntax or defined set of coding standards. Along with PHP, it works for JavaScript and CSS files.

# 3 Performance tools

When developing with PHP it is highly advisable that every application you build should have the right PHP performance testing tools to ensure that it runs correctly. PHP profilers have been widely used by developers to improve PHP performance or to determine weak points of web applications. There are two types of code profilers: standard and tracing profilers.

Standard profilers periodically record stack traces of your application, while tracing profilers are lighter weight than standard profiles and can be used while you code. Standard code profilers give you a snapshot of important metrics like CPU, memory usage, time spent per line of code, and frequency of method calls. On the other hand, tracing profilers have quite an advantage from standard as you can use it every day, and it will not slow you down. It is designed to catch errors in real time while you are developing, instead of catching errors after the fact. Tracing profilers are considered as your first line of defense in dealing with bugs.