

## **Abstract**

Model-View-Controller is a famous architecture on web application development, but MVC cannot mapped directly into source code, it need to build some component to create an MVC architecture. With the popularity of AJAX, an MVC architecture not only can be implemented on Server Side but it also can be implemented on Client Side, to implement Client Side MVC, Smarty Template Engine need some template function, and CakePHP Framework need Helpers.

This final project analyze the implement of Server Side MVC and Client Side MVC using the modification of Smarty Template Engine to implement MVC and CakePHP Framework. Some of parameters to be analyzed are measuring source code, component availability, custom has to be made by a developer, class name conventions, file organization and application performance that has been built.

The result from the implementation and analysis is with modified Smarty Template Engine, web application have better performance than using CakePHP Framework, but in MVC implementation, using CakePHP Framework will make easier in implementing class name conventions, file organization.

Keyword : *CakePHP, Smarty, Server Side MVC, Client Side MVC*