# ABSTRACT

Generally, quality and productivity play important roles in every software development life cycle. However, when discussing about quality and productivity, another function that synonym to distinguish these features is software inspection. Software inspection is generally accepted as a useful technique for finding errors in both documents and codes. There are several phases in software inspection and one of it is defect detection phase. This dissertation is to review the role of defect detection phases involved in the software inspection process. Thus, for this project, it focuses on the development of a prototype CASE tool for code inspection called *CodeIns*. *CodeIns* ensures that each line of codes are written complied with syntax of C language and also generates the inspection outcomes at the end of the code inspection process. This tool is designed for the client/server environment and the window-based development. It is used to web-enabled it for use in the intranet environment. The software used to implement this tool is Active Server Page (ASP), Dynamic Hyper Text Markup Language (DHTML), Microsoft Internet Explorer 5 (IE), JavaScript, VBScript and Flash. In conclusion, it is hope that this tool can help to inspect the source codes and from that, it can identify and reduce the syntax errors during source code writing.