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University of Westminster, UK

**Semi-Automated Tools Based Approach
for Secure Agile Software Development Lifecycle**

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Submitted in partial fulfillment of the requirements for the
MSc in Cyber Security and Forensics under the Department of Computing

May 2021

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Abstract

Software security testing is a nonfunctional requirement of a software application which helps to identify the vulnerabilities of the software application. Identifying these vulnerabilities early as possible is crucial to eliminate or manage their risk. Motivation for this study is the experience of giving less attention to the security testing in lower and middle tier software companies. as the author, working with that Sri Lankan software development industry for several years I have seen this in many places that I have worked on.

Due to the lack of resources middle and lower tier companies providing less attention to the application nonfunctional requirements. From all the nonfunctional requirements the least noticing requirement is the software security requirement.

Our goal of this study is to provide the required application security knowledge to the Sri Lankan middle and lower tier software companies to integrate the software security testing with their organizational software development lifecycles.