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In collaboration with the

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Browser Extension Testing Emulator (BETE)

By

Mr. Ravindran Kamaladevan

Supervised By

Mr. Sriyal Jayasinghe

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Department of Computing

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Abstract

Internet made human beings to do things efficient and faster and humans use internet everywhere. Most of the time people use internet through browsers and they do browsing, communication, e-commerce and ext... According to their needs there were enough browser extension being developed and used in-order to add extra functionalities and to support them. People deals with their personal information on browser in their day-today life such as credential information, credit card details and bank account information email accounts and ext… But a browser extension can access these all information from browser. So the extension developers should be aware of each line of code. There will be a big impact if there is small hole for hackers.

So testing a browser extension became mandatory to make sure, whether the functionality and security of browser extension have achieved or not. But testing a browser is not a simple task with existing browser extension testing methods. There is only one way available and used to test a browser extension such as "WebDriver". The WebDrivers are not capable enough to provide a complete test coverage to browser extension. The WebDriver is not supporting to test more parts of the extension and it is not always reliable.

To avoid the existing problems and to provide a complete test coverage for a browser extension testing a Browser Extension Testing Emulator was proposed. That concept has analyzed, designed, develop and tested as a search project here.

Key words: Software Testing, Browser Extension Testing, Testing Emulators, WebDriver Testing, Browser extensions