Assignment 2

Research Paper

**Date given:** 28/3/19

**Date due:** 14/4/19

**Weight** 15%

You are required to write a four-page research paper titled “*The changing landscape of web services*”. The focus of this paper is to learn about the new technologies are emerging related to web services.

The aim of this paper is to **discover** new technologies. There are many old existing technologies, but as a developer we must always keep track of what is new and coming in the future. In addition to traditional research papers, we are interested in “whitepapers” or documentation about new technologies. Often technologies are so new, that no real formal presentations have been given on the technology so documentation is the only means of understanding how they work.

Your paper should include, but not limited to:

* Protocols – what exists and how they work.
* Security – how it can be implemented.
* Implementations – Software for implementing services.
* Performance – How benchmarking and analysis can be performed.
* Cloud based solutions – What new platforms exist.

As SOAP/XML is an older technology, this should be **avoided** as a topic along with the many different Java related web service libraries and tools.

**Specifics**

* The research paper should be written in the IEEE conference format which is on the current Moodle page.
* The original font sizes and styles must be retained.
* Only one image can be included in the document.

**Sources to aid you with your research**

* <https://github.com/OWASP/CheatSheetSeries/blob/master/cheatsheets/REST_Assessment_Cheat_Sheet.md>
* <https://github.com/OWASP/CheatSheetSeries/blob/master/cheatsheets/REST_Security_Cheat_Sheet.md>
* <https://github.com/OWASP/CheatSheetSeries/blob/master/cheatsheets/Web_Service_Security_Cheat_Sheet.md>
* Search through GitHub and identify any web service related projects that are currently under development. There will be many different new projects that are available and will provide you with interesting topics to research.

**Deliverables**

* One single word document uploaded to the Moodle Assignment 2 uploader on the course page.
* Provide links to all your sources.

**Plagiarism**

* Remember that you cannot take large bodies of text and add them directly into your document, this is considered plagiarism and will result in a zero grade.
* All content must be in your own words.