

CURRENT TRENDS IN SOFTWARE ENGINEERING

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ABSTRACT

Software engineering is dynamic discipline having continuous growth in research on identifying new methods, tools and methodologies that resulting into vast improvement in software development. Also, the software maintenance is more reliable and efficient. The past research critics on cost reduction, quality and flexibility which is an endless efforts to design and develop. There are many ways to improve these sectors that still cause impacts to the software industry [1]. The new trends in software engineering research resolves the issues under the research field of Cloud Computing, Big Data, Android Computing, Network Security, Agile Software development, Real Analytics, Information Management (DB Theory), Applied Mobility. Nevertheless, there are more other research areas in software engineering that have been intense researched and implemented in the industries.

Introduction:

The recent trends in software engineering includes many technologies. Few of the technologies are as below:

1. Cloud computing and Big data
2. Android computing and Capability Clouds
3. Project Management and Agile
4. Real analytics and Applied Mobility
5. Security Ethics, Network Security and social computing.

The rest of the paper discusses each of the listed technologies. The section II briefs about cloud computing and Big data, Section III focuses on Android computing and Capability Clouds. The section IV highlights Project Management and Agile. However, the section V discusses Real analytics and Applied mobility followed by Section VI focusing on Security

ethics, Network Security and social computing. Lastly, section VII concludes.

CLOUD COMPUTING AND BIG DATA:

Cloud computing a new area in the research field of software engineering where more new techniques and models are introduced with benefit to the industry and also provide knowledge with intension to improve the education and software industry in providing reduction cost and improve the current technology in the industry [1]; [2]. Based from past research, problems in identifying the quality of services in cloud computing are rather poor and because of variety of services provided in cloud computing are neglected, mostly in service sector where the benefit of cloud computing is not felt by the software industry and the users. Thus, researcher Abdelmaboud, et al. [2] have introduced five-research area to improve cloud-computing services. The research areas are as in Figure 1 below.

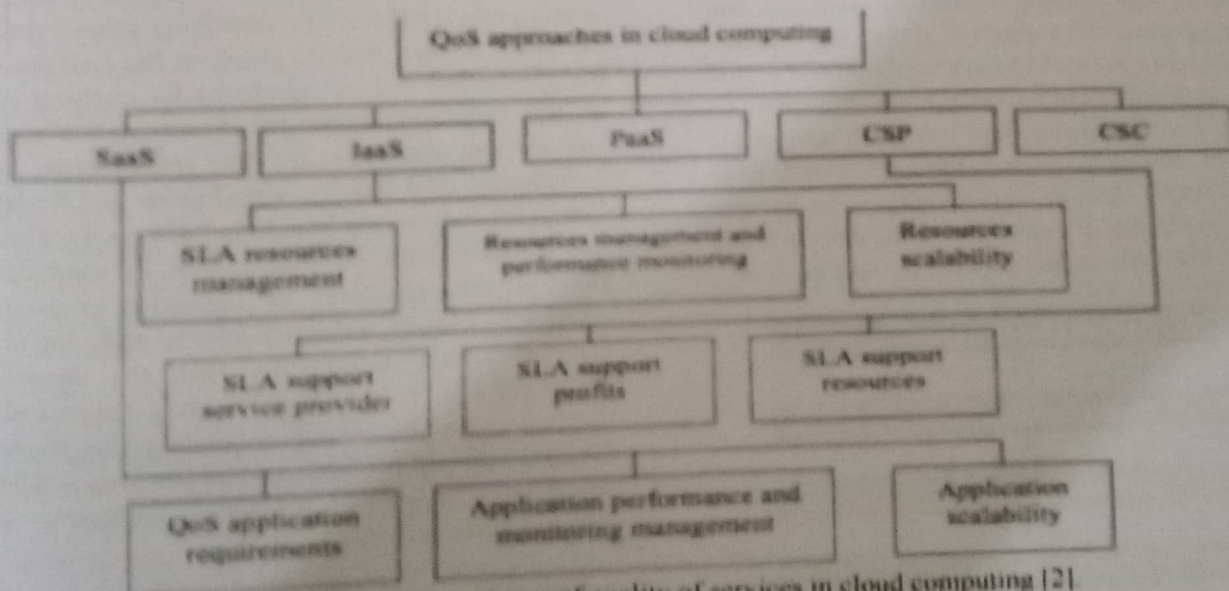


Figure-1. The characteristics of quality of services in cloud computing [2]

The characteristics of quality of services in cloud computing [2]. The SaaS research focus is related to the

applications provided in systems that act as service to consumers. PaaS research focus on development of the

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