A Survey of Software Quality Assurance and Testing Practices and Challenges in Bangladesh

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 180
Number 39

Year of Publication: 2018

Authors:
S. M. Abdur Rouf Bhuiyan, Md Shamsur Rahim, A. Z. M. Ehtesham Chowdhury, Md Hasibul Hasan

Abstract

Software Quality Assurance and Testing (SQAT) is an integral part of software development. Without the SQAT activities, a software may lead to catastrophic consequences. However, there are many challenges in performing SQAT activities. The goal of this survey was to identify the challenges along with the practices of SQAT activities in Bangladesh. The survey was developed using qualitative research methodologies. The survey was conducted between August, 2017 and January, 2018. In total, 47 organizations participated in the survey. Majority of the software firms that participated in the survey were from Dhaka, the hub of IT sector in Bangladesh. The survey was designed based on four main objectives namely characterizing the organizations, identifying SQAT practices, capturing the essence of testing team along with testing tools and understanding the SQAT challenges, training, education as well as career prospect. This paper presents the findings of the survey and provides recommendations and future research directions for academia as well as for the industry.
References

18. Gregory Tassey. The economic impacts of inadequate infrastructure for software testing.

Index Terms

Computer Science  Software Engineering

Keywords