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ESSENTIAL FOUNDATION CONCEPTS OF MANUAL SOFTWARE TESTING ACTIONS, COMMON CHARACTERISTICS AND PROCEDURE

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Abstract

Programming testing is the stage which makes programming as usable quality scholarly amount. Programming testing under experiences distinctive stages. The accompanying stages according to the examination are investigation test, test arranging, experiment or test information or test condition creation, test execution, bugs logging, following and test strategy. Past research has been improved the situation advance test process in nature of programming. All accessible testing forms incorporate distinctive advancement models and diverse programming testing procedures are performed. Each organization chooses their testing procedure dependent on the basic condition of the applications each organization selects their testing procedure. The security, execution and utilitarian parts are most basic in every application these are altogether to be tried and carrying on obviously. This paper will clarify and guaranteeing about programming applications quality to do enhanced testing forms. The real programming testing systems are Security, Performance and Functional are handled by Analysis, Preparation and Execution will be finished up.

Author Keywords

Functional, Performance and Security Testing Analysis, Planning and Preparation, Execution and Closure, Software Testing Techniques, Software Testing Life Cycle (STLC), Software Development Life Cycle (SDLC).

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Reference

References (39)

1. Pressman, R.S
   Software Engineering: A practitioner Approach

(1997)

2. Sommerville, I
   Software Engineering

   (1998)

3. Myers, G.J
   The Art of Software Testing

   (2012)

4. McGraw.Chess,B. Seven pernicious kingdom
   A Taxonomy of Software Security Errors

   (2005) WISST Workshop on Software Security Assurance Tools, Techniques and metrices,

5. G.McGraw
   Software SecurityTesting

   (2004) IEEE Security and Privacy, Volume 2, Issue 2, Page No 80-83,

6. D,Verndon. G.McGraw
   Risk Analysis in software Design

   (2004) IEEE Security and Privacy, Volume 2, Issue 4, Page No 32-37,

7. Sarma, M. D,Kundu.Mall, R
   Automatic Test Case Generation from UML Sequence Diagram

   (2007) 15th International Conference on Advanced Computing and Communications,
   DOI: https://doi.org/10.1109/ADCOM.2007.68

8. Bertolino, A. Basanieri, F
   A Practical approach to UML-based derivation of integration tests

   (2000) Proceeding of the Fourth International Software Quality Week Europe and International Internet Quality Week Europe,

9. Boghdady, P,N.Badr, ,L.Hashem, M.Tolba, M,.F
   A Proposed Test Case Generation Technique based on Activity Diagrams

   (2011) Volume 11, Issue 3, Page No 37-57,

10. Treharne, H. Draper, J. Schneider, S
    Test Case Preparation Using a Prototype. In: B`98: Recent Advances in the Development and Use of the B Method

    (2006) Lecture Note in Computer Science, Page No 293- 311,

11. Swain, Kumar, Santosh. Mohapatra, Durga, Prasad. Mall, Raj ib
    Test Case Generation Based on Use case and Sequence Diagram

    (2010) International Journal of Software Engineering, Volume 3, Issue 2,

12. Akhilesh, Babu,Kolluri. K,Tameezuddin. Kalpana, Guddika dula
    Effective Bug Tracking Systems. Theories and Implementation

    (2012) IOSR Journal of Computer Engineering, Volume 4, Issue 6, Page No 31-36,

13. Rina, Tyagi, Sanjay
AComparative Study Of Performance Testing Tools

(2013) International Journal of Advanced Research in Computer Science and Software Engineering, Volume 3, Issue 2,

14. Karen ,Scarfone
Intro to Information Security Testing & Assessment

(2012)

15. B, Beizer
Software Testing Techniques

(1990) Technology Maturation and Research Strategies Carneige Mellon University Pittsburg,

16. B.Beizer
Software Testing Technique

(2006)

17. A, Bertolino
Chapter 5: Software Testing

(2001) IEEE SWEBOK trial version,

18. Khan, Mohd. Khan, Farmeena
Comparative Study of White Box, Black Box and Grey Box Testing Techniques

(2012) International Journal of Advanced Computer Science and Applications, Volume 3, Issue 6,

19. B, Swarnendu, R, Mall
Regression Test Selection Techniques

(2011) A Survey-Informatica, Volume 35,

20. Swain,S.k. Mohapatra, D.P. Mall,R
Terst Case Generation Based on Use Case and Sequence Diagram

(2010) International journal of Software Engineering, Volume 3, Issue 2, Page No 289-321,

21. Thakre, Sheetal. Chavan, savita. Chavan,P.M
Software Testing Strategies and Techniques

(2012) International Journal of Emerging Technology and Advanced Engineering, Volume 2, Issue 4, Page No 2250-2459,

22. Rao, A Ananda; Kumar, Kiran J
An Approach to Cost Effective Regression Testing in Black-Box Testing Environment

(2011) International Journal of Computer Science Issues, Volume 8, Issue 3, Page No 1694-0814,

23. Kamalakannan, S, G., Balajee, J., Srinivasa Raghavan
Superior content-based video retrieval system according to query image

(2015) International Journal of Applied Engineering Research, Volume 10, Issue 3, Page No 7951-7957,

24. Ranjith, D., Balajee, J., & Kumar, C
In premises of cloud computing and models

(2016) International Journal of Pharmacy and Technology, Volume 8, Issue 3, Page No 4685-4695,

25. Jeyakumar, B., Durai, M. S., & Lopez, D
Case Studies in Amalgamation of Deep Learning and Big Data

(2018) In HCI Challenges and Privacy Preservation in Big Data Security, Page No 159-174,

26. Ushapreethi, P., Jeyakumar, B., & BalaKrishnan, P
Action Recongnition in Video Survillance Using Hipi and Map Reducing Model

(2017) International Journal of Mechanical Engineering and Technology, Volume 8, Issue 11, Page No 368-375,

27. Gupta,Varuna.Sen,Saxena,Vivek
Software Testing: Smoke and Sanity

(2013) International Journal of Engineering Research and Technology, Volume 2, Issue 10,

28. Liskin, olga.Hermann, christoph.Knauss, Eric.Kurpic, Thomas.Rumpe, Bernhard.Schneida, Kurt
Supporting Acceptance Testing in Distributed Software Projects with Integrated Feedback Systems: Experiences and Requirements

(2012) 2012 IEEE Seventh International Conference on Global Software Engineering,
DOI: https://doi.org/10.1109/ICGSE.2012.34

29. Yoo, Shin.Harman, mark
Regression Testing Minimisation, Selection and Prioritisation

(2012) A Survey. King`s College London, Page No 67-120,

30. Sumalatha,Mary.Raju,G
Object Oriented Test Case Generation Technique using Genetic Algorithms

(2013) International Journal of Computer Applications, Volume 61, Issue 20,

31. Ostrand,T,J. Balcer,M, J
The category-partition method for specifying and generating functional tests

(1988) Communications of the ACM, Volume 31, Issue 6, Page No 676-686,

32. Nirpal,B,Premal.Kale,K,V
Using Genetic Algorithm for Automated Efficient Software Test Case Generation for Path Testing

(2011) International Journal Advanced Networking and Applications, Page No 911- 915,

33. Malhotra, Ruchika. Garg, Mohit
An Adequacy Based Test Data Generation Technique Using Genetic Algorithms

(2011) Journal of Information Processing Systems, Volume 7, Issue 2,

34. Bhasin, Harsh. Khanna, Esha. Sudha
Black Box Testing based on Requirement Analysis and Design Specifications

(2014) International Journal of Computer Applications,

35. Mohamad Kassab
Software Testing Practices in Industry: The State of the Practice

(2016)

36. Marcel Bohme and Soumya Paul
A Probabilistic Analysis of the Efficiency of Automated Software Testing

(2016) IEEE Transactions on Software Engineering, Volume 42, Issue 4, Page No 345 - 360,
DOI: https://doi.org/10.1109/TSE.2015.2487274

37. W.-K. Chen
Linear Networks and Systems

(1993)Page No 123–135,

38. Monika, Pradeep Kumar Bhatia
Impact of Software Testing Metrics on Software Measurement

(2017) International Journal of Computer Engineering and Technology, Volume 8, Issue 4, Page No 108–126,

39. Dr. Leena Jain, Satinderjit Singh
A Journey From Cognitive Metrics To Cognitive Computers

(2013) International Journal of Advanced Research in Engineering and Technology, Volume 4, Issue 4, Page No 60–66,