Abstract

From last three decades various tools, techniques and methods are developed by researchers. The objective of research is to optimize the error and improve the quality of the software. During development of software, various errors are introduced by the developer at various phases of software development life cycle (SDLC). It is difficult to identify all the errors of the software by the developer of different phases. Various methodologies are proposed and implemented by the researcher to identify the errors. The objective of this paper is to review and develop taxonomy of requirement errors, prepare a list of requirement errors for the analysis. Conclusions are listed on software requirement errors at last. The list of requirement errors may support the researchers to improve their work in a systematic way and classify all requirement errors to increase the software quality.

References
1. Nikora, A. P.; Lyu, M. R. Software reliability measurement experience. Handbook of

2. P. Fusaro, F. Lanubile, G. Visaggio, A replicated experiment to assess requirements

3. F. Lanubile, F. Shull, V.R. Basili, Experimenting with error abstraction in requirements
   documents, in: Proceedings of Fifth International Software Metrics Symposium, METRICS’98,

4. S. Basu, N. Ebrahimi, Estimating the number of undetected errors: Bayesian model
   selection, in: Proceedings of the Ninth International Symposium on Software Reliability

5. D.N. Card, Learning from our mistakes with defect causal analysis, IEEE Software 15 (1)

6. R.B. Grady, Software failure analysis for high-return process improvement,

   defect causes in products developed by virtual teams, Journal of Information and Software

8. R.G. Mays, C.L. Jones, G.J. Holloway, D.P. Studinski, Experiences with defect


    software process improvement during development, IEEE Transactions on Software

11. S. Beecham, T. Hall, C. Britton, M. Cottee, A. Rainer, Using an expert panel to validate a
    requirements process improvement model, The Journal of Systems and Software 76 (3) (2005)
    251–275.

12. G.J. Browne, V. Ramesh, Improving information requirements determination: a cognitive

13. C. Debou, A.K. Combelles, Linking software process improvement to business

14. M.R. Endsley, Situation awareness and human error: designing to support human

15. D.A. Norman, Design rules based on analyses of human error, Communications of the

16. D.A. Norman, Steps towards a cognitive engineering: design rules based on analyses of

17. C. Trevor, S. Jim, C. Judith, K. Brain, Human Error in Software generation Process,

18. Endres, An analysis of errors and their causes in system programs, IEEE Transactions
    on Software Engineering 1 (2) (1975) 140–149.

19. T.E. Bell, T.A. Thayer, Software requirements: are they really a problem?, in:
    Proceedings of Second International Conference on Software Engineering, IEEE Computer


Index Terms

Computer Science
Software Engineering

Keywords