Abstract

Significant documentation is been formed with almost all software projects, irrespective of application. Software project documentation is a perspective whose purpose is to communicate information about the software system. For research purpose documentations of final year students of Masters level course have been considered for the research purpose. These documentations consist of the artefacts like requirement analysis, technical environment, database design, structural and object oriented modelling techniques, screen layouts and testing techniques along with test case and data. The results were compiled from 505 large software project documentations developed during a period of academic years from 2001-2002 to 2011-2012. The duration of these software projects was six months. Errors from these software project documentations were found and these errors were classified into 11 broad error categories. After compilation of results and studying various artefacts in software project documentations 103 software attributes were recognized. These software attributes were classified into two broad classes (a) Quantifiable attributes and (b) Non-quantifiable attributes. Out of 103 software attributes, 39 were quantifiable attributes and 64 non-quantifiable attributes. Subsequent to categorization, weights were assigned to these quantifiable software attributes only for which a survey was conducted. The basic goal of assigning weights to these quantifiable attributes was to score software project documentation. Further, software template...
Software Template for Evaluating and Scoring Software Project Documentations

is been proposed for evaluating and scoring student's software projects documentation.

References

- Delaney D., Brown S., "Document Templates For Student Projects In Software Engineering?", Department of Computer Science, National University of Ireland, Maynooth Date: August 2002 Technical Report: NUIM-CS-TR2002-05
- Forward A. J., "Software Documentation – Building and Maintaining Artefacts of Communication?", presented to the Faculty of Graduate and Postdoctoral Studies in partial

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fulfilment of the requirements for the degree Master in Computer Science, Ottawa – Carleton
Institute of Computer Science, University of Ottawa, Canada, 2002.

- Forward A. J., "The Relevance of Software Documentation, Tools and

  Proceeding SIGCSE 2000 at thirty first SIGCSE technical symposium of computer science and
  education.

- Jazzar A., Scacchi W., "Understanding the requirements for information system
documentation: an empirical investigation", COOCS `95, Sheraton Silicon Valley,
California, USA, ACM Press, p268 – 279.

- Kipyegen N. J, William P. K. K., "Importance of Software Documentation",
  International Journal of Computer Science, Vol. 10, Issue: 5, No. 1, September, 2013, ISSN:
  1694 - 0784

- Laitinen K., "Document Classification for Software Quality Systems",
  Technical Research Centre of Finland (VTT) Computer Technology Laboratory, ACM SIGSOFT
  SOFTWARE ENGINEERING NOTES vol 17 no 4 Oct 1992 Page 32

- Nasution M. F. F, Weinstroffer H. R. "Documentation in Systems Development: A
  Significant Criterion for Project Success", HICSS 2009 42nd Hawaii International

- Scheff B. H., Georgon T., "Letting software engineers do software engineering or
  freeing software engineers from the shackles of documentation", p81 – 91, SIGDOC

- Sulaiman S., Sahibudding S., "Production and maintenance of system
documentation: what, why, when and how tools should support the practice",
  1362.

- Visconti M., Cook C., "Software System Documentation Process Maturity
  Model", Proceeding CSC &apos;93 of the 1993 ACM conference on Computer Science

Index Terms

Computer Science
Software Engineering

Keywords

Errors Error Category Non – Quantifiable Attributes Quantifiable Attributes
Software Attributes