Abstract

The widespread usefulness of Graphical User Interfaces has made GUIs the most important component of software today. As the GUI have characteristics like event driven input, mouse clicks etc., and the testing of conventional software cannot be applied on the GUI’s. One of the most important innovations that strongly contribute to solve this issue has been the introduction of the Extensible Markup Language (XML). The XML Schema based testing is introduced to combine the great potential of XML Schema in describing input data in open and standard form, with testing activity. We have theoretically analyzed different components based testing techniques especially XML based testing and regression testing. We have written the representation or specification of GUI in XML which is validated by XML Schema. Program have been written reads the XML and to generate the test sequences. We have developed XML Regression Test Suite Modeler to perform testing of GUI component. It includes Test Case
Generator, GUI Comparer and Regression Test Suite Generator as the main components. A case study applying the proposed approach is described and results are presented.

Reference

- S Ghosh, AP Mathur - “Issues in testing Distributed Component based Systems”… ICSE Workshop on Testing Distributed Component-Based Systems, 1999 - citeseer.ist.psu.edu
- Trace Galloway ” Principles of XML Schema design “ XML 2002 proceedings by deepX.

Index Terms

Computer Science Testing
### Key words

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