Model based Test Cases Generation for Web Applications

Abstract

With the advent of web 2.0, web application architecture has changed a lot with increasing complexity. Modeling of the web applications has a key role in development; if modeling is inappropriate then the developed application will be poor. Testing is an important activity to improve the quality of web applications. So a technique for Model based Test case generation for Web applications have been proposed. Web Diagrams and Sequence Diagrams are used to model the behavior of web application under Test (AUT). Web diagram provides the functional requirement and sequence diagram provided the most important part of the web application, the Navigation between web pages. Navigation is the only thing that makes difference between stand alone applications and Web application. The proposed technique is validated with various case studies.

References

- Azrul Hazri Jantan: An Extension of UML Modeling for Web Hypermedia Design: A Case
- Myers, Glenford J. The art of software testing / Glenford J. Myers; Revised and updated by Tom Badgett and Todd Thomas, with Corey Sandler. 2nd ed. p. cm. ISBN 0-471-46912-2 pp 6

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