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Providing RIA user interfaces with accessibility properties. (English) Zbl 1214.68066

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Summary: Rich Internet Applications (RIAs) technologies are challenging the way in which the Web is being developed. However, from the UI accessibility point of view, these technologies pose new challenges that the Web Accessibility Initiative of the W3C is trying to solve through the use of a standard specification for Accessible Rich Internet Applications (WAI-ARIA). Currently, the introduction of properties defined in WAI-ARIA is being done in an ad-hoc manner due to the lack of models, methodologies and tools to support the design of accessible RIA UIs. In this paper we propose a semantic approach to deal with this modeling issue by extending the RUX-Method, a model-based method to build RIA UIs. The approach includes the validation process of the accessibility issues at two different levels: the UI structure and the interactions behavior.

MSC:

68M11 Internet topics

Keywords:

RIA; accessibility; ontologies; user interfaces; model-driven development

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