Detecting and Localizing Visual Inconsistencies in Web Applications

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Introduction and Motivation

User interface failures can negatively impact a website’s usability as well as users’ perception of trustworthiness and the quality of the services delivered. Visual consistency – having the same styling and structure for the website-wide layout components (e.g., header and footer) across all pages in a web application – is important from the perspective of the website’s user experience, usability, and branding. Debugging a Visual Inconsistency (VI) is a time-consuming manual process, requiring significant expertise.

Example

![Reference page (R)](image1)

![Test page (t)](image2)

Approach

- Uses WebSee [1] for visual comparison
- Identifies only human perceptible visual inconsistencies

References


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