A Retrospective on User Interface Development Technology

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Abstract:
We present a brief survey on the evolution and state-of-the-art of user interface (UI) development technology. We examine the last two decades and provide a short insight into how UI technology evolved, shaped by the desktop, web, and mobile eras. From the technology mainstream, we explain form-oriented, template-based, object-oriented, hybrid, and declarative frameworks. We also address model-driven and generic approaches. The focus of this paper is on a framework of UI development concerns and how these have been addressed in each analyzed technology or group of technologies. At the end, we give a summary of current issues and future directions of UI development in general.

Keywords: