

1. Learning by doing: How to develop a cross-platform web app

Huynh, Minh (1); Ghimire, Prashant (1)

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Author affiliation: (1) Marketing and Supply Chain Management, Southeastern Louisiana University, Hammond; LA, United States

Abstract: As mobile devices become prevalent, there is always a need for apps. How hard is it to develop an app, especially a cross-platform app? The paper shares an experience in a project that involved the development of a student services web app that can be run on cross-platform mobile devices. The paper first describes the background of the project, the clients, and the proposed solution. Then, it focuses on the step-by-step development processes and provides the illustration of written codes and techniques used. The goal is for readers to gain an understanding on how to develop a mobile-friendly web app. The paper concludes with teaching implications and offers thoughts for further development. (11 refs)

Main heading: Application programs

Controlled terms: Mobile devices - Open source software - Open systems - Software engineering - World Wide Web

Uncontrolled terms: Cross-platform - HTML5 - Javascript - Web App - Web database

Classification Code: 716 Telecommunication; Radar, Radio and TelevisionTelecommunication; Radar, Radio and Television - 723 Computer Software, Data Handling and ApplicationsComputer Software, Data Handling and Applications - 723.1 Computer ProgrammingComputer Programming

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