



Building Cross-Platform Mobile and Web Apps for Engineers and Scientists: An Active Learning Approach (Activate Learning with these NEW titles from Engineering!)

By Pawan Lingras, Matt Triff, Rucha Lingras

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Cross-platform application design provides an excellent starting point for mastering application development in this new book. You can introduce today's most popular technologies, including HTML5, CSS3, JavaScript, jQuery Mobile, Node.js, JSON, localStorage, sessionStorage, NoSQL using MongoDB, SQL using MySQL, templating using handlebars, and maps. An app-centric view emphasizes subsets of these technologies to guide students in developing non-trivial apps. The apps serve as models for numerous projects from various application domains, while detailed outlines present potential course projects. Apps continue to evolve, but the technologies in this book form the backbone for future cross-platform app development. Students learn to work with all major mobile and web platforms as this book's active learning approach asks students to type code in parallel as the apps are developed. Meaningful exercises further encourage students to change code and evaluate resulting app behavior.

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Editorial Review

Review

"The content is current. I have found the organization easy to follow. It is overall reader friendly and I can expect my students to understand the material without major issues. As a technical writing presentation, it is easy to follow. The subject transfers from one chapter to another without major gaps. As an entry level how-to book, it is sufficient to educate the students with mobile app development skills."

"I think the goal of the book is clear that serves as a book on how to build cross-platform mobile and web apps using HTML5, JavaScript, jQuery, node.js and JSON. The concepts and terms are explained very well when they first introduced. For example, in chapter 3, the definition of HTML and various tags are clearly introduced. The writing of the chapters is clear and easy to follow. I think the illustrative material of this book is very good. I really like the idea to teach mobile app development using active learning approach. The cross-platform idea is also unique. I love the book using an active learning approach. It would be an excellent source for those who want to start mobile app development. I would adopt this book if I will open a mobile app development course."

About the Author

Pawan Lingras is currently a Professor of Mathematics and Computing Science at Saint Mary's University, Halifax. He has authored more than 200 research papers in various international journals and conferences. He has also co-authored two textbooks and co-edited two books and five volumes of research papers. He has been a Natural Sciences and Engineering Research Council (NSERC) Discovery Grant recipient for 25 years. His areas of interest include artificial intelligence, information retrieval, data mining, web intelligence, and intelligent transportation systems. Professor Lingras has served as the general co-chair, program co-chair, review committee chair, program committee member and reviewer for various international conferences on artificial intelligence and data mining. He is also on the editorial boards of a number of international journals. Professor Lingras is a recipient of the Father William A. Stewart, S.J., Medal for Excellence in Teaching by the Alumni Association and the Faculty of Science Teaching Excellence award by the Student Association of Saint Mary's University. He is a graduate of IIT Bombay with graduate studies from University of Regina. His co-authors include professionals from Canada, India, China, Tunisia, USA, UK, Germany, Norway, and Chile. Professor Lingras was the Director of a Business Administration and Computing program in The Gambia, West Africa. He recently served as a University Grant Council (UGC) funded Scholar-in-Residence at SRTM University, Nanded, and as a visiting professor at IIT Gandhinagar, both in India. During these two visits in 2011-12, he extensively traveled through India giving more than 32 invited talks. He has also previously served as a Shastri Indo-Canadian Institute Scholar.

Matt Triff is a veteran of many hackathons whose accomplishments include receiving an award from LinkedIn's Hack-A-Day in Toronto. He has software and system development experience with Staples, Vleek Infotech, and the IBM Software Development Lab. He graduated from the University of Saskatchewan with honors in Computer Science.

Rucha Lingras has served in database and software system development and management with Clearwater Seafood in Halifax, the IBM Software Development Lab, and Exxon-Mobil. She is currently working as a business technology analyst with Deloitte after graduating from Saint Mary's University with a double major in Mathematics and Computing Science. She has been a recipient of a number of academic awards, including

a Presidential Scholarship and NSERC.

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