



Learning Ionic - Build Hybrid Mobile Applications with HTML5

By Arvind Ravulavaru

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Key Features

- Create hybrid mobile applications by combining the capabilities of Ionic, Cordova, and AngularJS
- Reduce the time to market your application using Ionic, that helps in rapid application development
- Detailed code examples and explanations, helping you get up and running with Ionic quickly and easily

Book Description

With the growth of the start-up market, the time it takes to market your app ideas is crucial. Developing apps using each platform specific format is time consuming and will put you behind in the rat race. Enter the hybrid mobile space: using knowledge of web technologies, one can transform their ideas into complete apps in no time and distribute them to a wide market of people.

Apps developed using web technologies need to have a robust, testable, and scalable client side JavaScript framework. This is where a beautiful CSS framework named Ionic meets AngularJS to provide an elegant, robust, testable, and scalable framework enabling the building of hybrid mobile apps.

With this book, you will learn hybrid mobile application development using Ionic. This book uses Cordova 5.0.0, Ionic CLI 1.5.0 & Ionic 1.0.0 to explain the concepts and build apps.

To begin with, the book helps you understand where Ionic fits in today's world. Then you will deep dive into Ionic CSS components, Ionic-Angular directives, and services. You will also examine theming Ionic apps using the built in SCSS setup.

Next, you will learn to build an Ionic client for a secure REST API, where you will implement user authentication and token-based development. Cordova and

ngCordova will be explored and you will learn how you can integrate device specific features like a camera and Bluetooth with an Ionic app. You will wrap up the book by building a messaging app, which will deal with integrating REST API as well as device features.

By the end of this book you will be able to develop a hybrid mobile application from start to finish.

What you will learn

- Learn how a hybrid mobile application works
- Familiarize yourself with Cordova and see how it fits into hybrid mobile application development
- Seamlessly work with Ionic CSS components and Ionic-Angular JavaScript components like directives and services
- Learn how to theme Ionic apps, as well as customize components using Ionic SCSS support
- Develop an app that builds a client for a Secure REST API using Ionic & Angular
- Develop a real-time chat app using Firebase, that consumes ngCordova
- Learn how to generate a device specific installer for an Ionic app using Ionic CLI as well as Ionic Cloud services
 1. Ionic “ Powered by Angularjs
 2. Welcome to Ionic
 3. Ionic CSS Components and Navigation
 4. Ionic and SCSS
 5. Ionic Directives and Services
 6. Building a Bookstore App
 7. Cordova and NgCordova
 8. Building a Messaging App
 9. Releasing the Ionic App
- About the Author **Arvind Ravulavaru** is a full stack consultant with over 6 years of experience in software development. For the last 2 years, Arvind has been working extensively on JavaScript, both on the server and client side. Before that, Arvind worked on Big Data Analytics, Cloud provisioning, and orchestration. Arvind has good experience on various databases and also has developed and architected applications built using Java - Struts & Spring, ASP .NET - MVC3, MVC4. Table of Contents

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Editorial Review

Review

Foreword by Mike Hartington - Core Team Member, Ionic

This book is the result of several months of dedicated work by Arvind Ravulavaru, a dedicated developer and writer with whom I've had the pleasure of collaborating with on several occasions. This book provides a great way to get started with Ionic and provides detailed examples from which even experienced developers can learn.

Arvind goes through the process of installing everything you need to get started with Ionic, as well as setting up the native SDKs. From there, Arvind covers the basics: Ionic's components, navigation using UI-Router, custom styles, and APIs provided by Ionic. From there, readers can build two apps: a bookstore app and a real-time chat application.

For experienced developers, the book explains how to enable native device APIs through Cordova's plugins. You'll learn how to use ngCordova (another project by the Ionic Team) to use Cordova plugins in an Angular-syntax. In the chat application, you'll also see how to connect to external databases, Firebase, and have your data keep in sync across all devices.

Prior to joining Ionic as a core team member and developer advocate, I worked for another company creating many internal hybrid apps. After evaluating other frameworks, I chose Ionic because it offered the only complete solution for hybrid mobile development. Everything I needed to get going was provided by Ionic. Instead of focusing on how to architect my app, I could focus on just building the app.

Ionic offers a complete ecosystem for hybrid mobile app development, saving costs and offering a high-performing, beautiful alternative to native development. We released the stable version of Ionic in May, then released alpha versions of three of our platform services this summer. We don't have any plans to slow down, and our support for the open source Ionic SDK will always remain strong. In my role at Ionic, I work with experienced and new developers and travel all over the world to teach newbies and dive deep into code with Ionic pros. I'm constantly impressed by how much people love the product and by what a dynamic, positive community we have.

You'll find this book to be a great introduction to Ionic, as well as a chance to learn some more about the SDK. Thank you for being part of the Ionic community.

Enjoy!

--Mike Hartington - Core Team Member, Ionic

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Arvind Ravulavaru Arvind Ravulavaru is a full-stack consultant with over 6 years of experience in software development. For the last 2 years, he has been working extensively on JavaScript, both on the server side and the client side. Prior to that, Arvind worked on big data analytics, cloud provisioning, and orchestration. He has good exposure to various databases and has also developed and architected an application that was built using Java and ASP.NET. A year and a half ago, Arvind started a blog titled The Jackal of JavaScript (<http://thejackalofjavascript.com>), where he writes about developing full-stack applications using JavaScript

alone as the server-side and client-side programming language. He has written articles on various topics, such as DNA analysis, sentiment analysis with JavaScript, programming Raspberry Pi with JavaScript, and building a node-web kit and a Web RTC-based video chat client, to name a few. Apart from this, Arvind provides training, empowering companies with the latest and greatest technology available in the market. He also conducts start up workshops, where he teaches rapid prototyping with today's amazing tool stack. Arvind also provides information on how to take ideas to the market in a very short span of time. He always looks for ways to contribute to the open source community, making this world a better place for developers. As a consultant, Arvind always tries to power amazing business ideas with awesome technology solutions (language-agnostic), moving the human race up the evolution chain. Arvind recently started his own company in Hyderabad, where he is building products in the Internet of Things space. The aim of the company is to build IoT products for the world at an affordable price so that everyone can enjoy technology that powers lives. You can reach Arvind on his blog at <http://thejackalofjavascript.com>. Arvind has also reviewed Data-oriented Development with AngularJS, Manoj Waikar, Packt Publishing.

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Wanda Matthews:

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