





optimized hybrid applications using the latest version of Ionic Discover the latest and upcoming features of Ionic A practical guide that will help you fully utilize all the features and components of Ionic efficiently Who This Book Is For The target audience for this book is intermediate-level application developers who have some basic knowledge of Ionic. What You Will Learn Use every Ionic component and its customization according to the application along with some important third party components Recently released Lazy Loading and Grid System supporting desktop application with Electron Integration of the various Ionic backend services and features such as Ionic Push, DB, Auth, Deploy in your application Exploration of white-listing, CORS, and various other platform security aspects to secure your application Synchronization of your data with the cloud server and fetching it in real time using Ionic Cloud and Firebase services Integration of the Cordova iBeacon plugin which will fetch contextual data on the basis of location and Websockets for real time communication for IOT based applications Implementation of offline functionality in your PWA application using service-worker, cache storage and indexedDB In Detail Ionic is an open source, front-end framework that allows you to develop hybrid mobile apps without any native-language hassle for each platform. It offers a library of mobile-optimized HTML, CSS, and JS components for building highly interactive mobile apps. This book will help you to develop a complete, professional and quality mobile application with Ionic Framework. You will start the journey by learning to configure, customize, and migrate Ionic 1x to 3x. Then, you will move on to Ionic 3 components and see how you can customize them according to your applications. You will also implement various native plugins and integrate them with Ionic and Ionic Cloud services to use them optimally in your application. By this time, you will be able to create a full-fledged e-commerce application. Next, you will master authorization, authentication, and security techniques in Ionic 3 to ensure that your application and data are secure. Further, you will integrate the backend services such as Firebase and the Cordova iBeacon plugin in your application. Lastly, you will be looking into Progressive Web Applications and its support with Ionic, with a demonstration of an offline-first application. By the end of the book, you will not only have built a professional, hybrid mobile application, but will also have ensured that your app is secure and performance driven. Style and approach A step-by-step guide (covering all its features and components) to build a complete mobile application using Ionic. Each chapter will cover different features of Ionic.

With 55 in-depth chapters, over 470 pages and 23 example app projects (including the source code), Firebase Essentials - Android Edition provides everything you need to successfully integrate Firebase cloud features into your Android apps. This book covers the key features of Android app development using Firebase including integration with Android Studio, User Authentication (including email, Twitter, Facebook and phone number sign-in), Realtime Database, Cloud Storage, Firebase Cloud Messaging (both upstream and downstream), Dynamic Links, Invites, App Indexing, Test Lab, Remote Configuration, Cloud Functions, Analytics and Performance Monitoring. The book is organized into chapter groups that focus on specific Firebase features, with each topic area consisting of a detailed overview followed by tutorial style examples that put theory into practice.

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International Conference on Electronic Systems and Intelligent Computing (ESIC 2020), held at NIT Yupia, Arunachal Pradesh, India, on 2 – 4 March 2020. Discussing the latest challenges and solutions in the field of smart computing, cyber-physical systems and intelligent technologies, it includes papers based on original theoretical, practical and experimental simulations, developments, applications, measurements, and testing. The applications and solutions featured provide valuable reference material for future product development.

“?” Create reliable, robust, and efficient Android apps with industry-standard design patterns About This Book Create efficient object interaction patterns for faster and more efficient Android development Get into efficient and fast app development and start making money from your android apps Implement industry-standard design patterns and best practices to reduce your app development time drastically Who This Book Is For This book is intended for Android developers who have some basic android development experience. Basic Java programming knowledge is a must to get the most out of this book. What You Will Learn Build a simple app and run it on real and emulated devices Explore the WYSIWYG and XML approaches to material design provided within Android Studio Detect user activities by using touch screen listeners, gesture detection, and reading sensors Apply transitions and shared elements to employ elegant animations and efficiently use the minimal screen space of mobile devices Develop apps that automatically apply the best layouts for different devices by using designated directories Socialize in the digital word by connecting your app to social media Make your apps available to the largest possible audience with the AppCompat support library In Detail Are you an Android developer with some experience under your belt? Are you wondering how the experts create efficient and good-looking apps? Then your wait will end with this book! We will teach you about different Android development patterns that will enable you to write clean code and make your app stand out from the crowd. The book starts by introducing the Android development environment and exploring the support libraries. You will gradually explore the different design and layout patterns and get to know the best practices of how to use them together. Then you'll then

