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This book constitutes the refereed proceedings of the First International Conference on Advances in Parallel, Distributed Computing Technologies and Applications, PDCTA 2011, held in Tirunelveli, India, in September 2011. The 64 revised full papers were carefully reviewed and selected from over 400 submissions. Providing an excellent

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international forum for sharing knowledge and results in theory, methodology and applications of parallel, distributed computing the papers address all current issues in this field with special focus on algorithms and applications, computer networks, cyber trust and security, wireless networks, as well as mobile computing and bioinformatics. Learn from the AWS subject-matter experts, explore real-world

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**scenarios, and pass the
AWS Certified Developer
- Associate exam Key
Features** This fast-paced
guide will help you clear
the **AWS Certified
Developer - Associate
(DVA-C01)** exam with
confidence Gain valuable
insights to design,
develop, and deploy
cloud-based solutions
using **AWS** Develop expert
core **AWS** skills with
practice questions and
mock tests **Book
Description** This book will
focus on the revised
version of **AWS Certified**

Developer Associate exam. The 2019 version of this exam guide includes all the recent services and offerings from Amazon that benefits developers. AWS Certified Developer - Associate Guide starts with a quick introduction to AWS and the prerequisites to get you started. Then, this book will describe about getting familiar with Identity and Access Management (IAM) along with Virtual private cloud (VPC). Next, this book

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**will teach you about
microservices, serverless
architecture, security
best practices, advanced
deployment methods and
more. Going ahead we
will take you through
AWS DynamoDB A NoSQL
Database Service,
Amazon Simple Queue
Service (SQS) and
CloudFormation
Overview. Lastly, this
book will help understand
Elastic Beanstalk and will
also walk you through
AWS lambda. At the end
of this book, we will
cover enough topics, tips**

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**and tricks along with
mock tests for you to be
able to pass the AWS
Certified Developer -
Associate exam and
develop as well as
manage your applications
on the AWS platform.
What you will learn
Create and manage users,
groups, and permissions
using AWS IAM
services
Create a secured
VPC with Public and
Private Subnets, NAC,
and Security
groups
Launching your
first EC2 instance, and
working with it**

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**application traffic with
ELB and monitor AWS
resources with
CloudWatchWork with
AWS storage services
such as S3, Glacier, and
CloudFrontGet
acquainted with AWS
DynamoDB a NoSQL
database serviceUse SWS
to coordinate work across
distributed application
componentsWho this
book is for This book is
for IT professionals and
developers looking to
clear the AWS Certified
Developer Associate 2019
exam. Developers looking**

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to develop and manage their applications on the AWS platform will also find this book useful. No prior AWS experience is needed.

Summary Restlet in Action gets you started with the Restlet Framework and the REST architecture style. You'll create and deploy applications in record time while learning to use popular RESTful Web APIs effectively. This book looks at the many aspects of web development, on both the

server and client side, along with cloud computing, mobile Android devices, and Semantic Web applications. About the Technology In a RESTful architecture any component can act, if needed, as both client and server—this is flexible and powerful, but tricky to implement. The Restlet project is a reference implementation with a Java-based API and everything you need to build servers and web clients that integrate

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with most web and enterprise technologies. About the Book Restlet in Action introduces the Restlet Framework and RESTful web APIs. You'll see how to easily create and deploy your own web API while learning to consume other web APIs effectively. You'll learn about designing, securing, versioning, documentation, optimizing, and more on both the server and client side, as well as about cloud computing, mobile Android devices, and

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Semantic Web applications. The book requires a basic knowledge of Java and the web, but no prior exposure to REST or Restlet. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Written by the creators of Restlet! How to create your own web API How to deploy on cloud and mobile platforms Focus on Android, Google App

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**Engine, Google Web
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Documenting and
versioning a Restlet
application Enhancing a
Restlet application with
recipes and best**

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practices PART 3

FURTHER USE

**POSSIBILITIES Using
Restlet with cloud
platforms Using Restlet in
browsers and mobile
devices Embracing
hypermedia and the
Semantic Web The future
of Restlet**

**Summary Android in
Action, Third Edition is a
comprehensive tutorial
for Android developers.
This fast-paced book puts
you in the driver's seat --
you'll master the SDK,
build WebKit apps using
HTML 5, and even learn**

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**to extend or replace
Android's built-in
features by building
useful and intriguing
examples. About the
Technology When it
comes to mobile apps,
Android can do almost
anything, and with this
book, so can you!
Android, Google's popular
mobile operating system
and SDK for tablets and
smart phones, is the
broadest mobile platform
available. It is Java-
based, HTML5-aware, and
loaded with the features
today's mobile users**

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**demand. About this Book
Android in Action, Third
Edition takes you far
beyond "Hello Android."
You'll master the SDK,
build WebKit apps using
HTML 5, and even learn
to extend or replace
Android's built-in
features. You'll find
interesting examples on
every page as you
explore cross-platform
graphics with
RenderScript, the
updated notification
system, and the Native
Development Kit. This
book also introduces**

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important tablet concepts like drag-and-drop, fragments, and the Action Bar, all new in Android 3. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Covers Android 3.x SDK and WebKit development from the ground up Driving a robot with Bluetooth and sensors Image processing with Native C code This book is written for

**hobbyists and
developers. A background
in Java is helpful. No prior
experience with Android
is assumed. =====**

=====

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Networking and web**

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Notifications and alarms

Graphics and animation

Multimedia 1Location,

location, location PART 3

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Putting Android to work

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PART 4 THE MATURING

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development AppWidgets

Localization Android

Native Development Kit

Activity fragments

Android 3.0 action bar

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**Drag-and-drop
Build your own smart
devices using the Android
Things platform**

**The Big Nerd Ranch Guide
A Comprehensive Guide
to Enterprise Mobility
Android Mesh - An
Android Networking
Library
WordPress as an
Application Framework
Design, Build and
Integrate with REST,
JSON, XML and JAX-RS
Android Best Practices by
Godfrey Nolan shows you
how to make your Android**

apps stand out from the crowd with great reviews. Why settle for just making any Android app? Build a brilliant Android app instead that lets your users praise it for ease of use, better performance, and more. Using a series of example apps which gradually evolve throughout this book, Android Best Practices brings together current Android best practices from user interface (UI)/user experience (UX) design, test-driven development (TDD), and design patterns (e.g., MVC) to help you take your

app to the next level. In this book you'll learn how to:

- **Use Android design patterns for consistent UI experience on many devices**
- **Use agile techniques such as test-driven development, behavior-driven development, and continuous integration**
- **Improve the speed and overall performance of your app**
- **Organize an Android app using design patterns such as MVC/MVP**
- **Create and consume REST and SOAP web services**

Designing and developing an app that runs well on many

if not all the leading Android smartphones and tablets today can be one of the most daunting challenges for Android developers. Well, this book takes much of the mystery out of that for you. After reading and using Android Best Practices, you'll become a much better Android app designer and developer, which in turn can make your apps better placed and more successful in the market place. Unlock the power of multi-core mobile devices to build responsive and reactive Android applications About

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**This Book Construct
scalable and performant
applications to take
advantage of multi-thread
asynchronous techniques
Explore the high-level
Android asynchronous
constructs available on the
Android SDK Choose the
most appropriate
asynchronous technique to
implement your next
outstanding feature Who
This Book Is For This book is
for Android developers who
want to learn how to build
multithreaded and reliable
Android applications using
high-level and advanced**

asynchronous techniques and concepts. No prior knowledge of concurrent and asynchronous programming is required. This book will also be great for Java experts who are new to Android. Whether you are a beginner at Android development or a seasoned Android programmer, this book will guide you through the most basic and advanced asynchronous constructs used in Android programming. What You Will Learn Get familiar with the android process model and low-level concurrent

**constructs delivered by the
Android SDK Use AsyncTask
and loader framework to
load data in the background,
delivering progress results
in the meantime Create
services that interact with
your activity without
compromising the UI
rendering Learn the working
of Android concurrency on
the Native Layer Interact
with nearby devices over
Bluetooth and WiFi
communications channels
Create and compose tasks
with RxJava to execute
complex asynchronous work
in a predictable way Get**

accustomed to the use of the Android Loader construct to deliver up-to-date results In Detail Asynchronous programming has acquired immense importance in Android programming, especially when we want to make use of the number of independent processing units (cores) available on the most recent Android devices. With this guide in your hands you'll be able to bring the power of Asynchronous programming to your own projects, and make your Android apps more powerful than ever before! To start

with, we will discuss the details of the Android Process model and the Java Low Level Concurrent Framework, delivered by Android SDK. We will also guide you through the high-level Android-specific constructs available on the SDK: Handler, AsyncTask, and Loader. Next, we will discuss the creation of IntentServices, Bound Services and External Services, which can run in the background even when the user is not interacting with it. You will also discover AlarmManager and

JobScheduler APIs, which are used to schedule and defer work without sacrificing the battery life. In a more advanced phase, you will create background tasks that are able to execute CPU-intensive tasks in a native code-making use of the Android NDK. You will be then guided through the process of interacting with remote services asynchronously using the HTTP protocol or Google GCM Platform. Using the EventBus library, we will also show how to use the Publish-Subscribe software

pattern to simplify communication between the different Android application components by decoupling the event producer from event consumer. Finally, we will introduce RxJava, a popular asynchronous Java framework used to compose work in a concise and reactive way. Asynchronous Android will help you to build well-behaved applications with smooth responsive user interfaces that delight the users with speedy results and data that's always fresh. Style and approach This easy-to-follow

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guide is full of code examples of real-world use cases. Each asynchronous topic is explained sequentially, from the most basic and low-level to the more advanced, using concise and effective language. Some lifecycle flows and concepts feature illustrations to help you understand the complex interactions between Android entities.

Unleash the Power of Kotlin for Android App Development
DESCRIPTION

This book aims to provide the knowledge around the

fundamental concept of Kotlin languages, and it's an application in Android application development. It covers basic to advanced concepts with practical examples. Each chapter in this book is a step by step journey towards the learning Kotlin and excel in various topics and concepts. It covers topics like data types, various functions, including lambdas and higher-order functions. It also covers advanced topics like Generics, Collections, DSL, Coroutine, etc. Most importantly, such concepts

are explained with practical usage of it in Android application. You will get to know what is the best possible way to use these concepts while you develop an Android application. In this book, along with Kotlin, an attempt has been made where few Android-specific topics are also explained. For example, the application is using Architecture components, including ViewModel, LiveData, NavigationComponent, and also it uses Flow, which is a hot topic in Kotlin. While we learn this concept, along

with that, we also develop a sample application where we can apply our learning and, in the end, have some tangible and measurable output. Readers with little previous knowledge of Android application development can easily follow this book. Most of the chapters are code-heavy and focuses on practical usage of Kotlin's features. Each chapter has code on the GitHub. You can check out this code and try it out. Or you can develop in parallel and cherry-pick things from the sample code base as and

when you need it. Few chapters also follow the quiz at the end, and you can self assess yourself by going through that quiz. In total there are ten chapters. KEY FEATURES - The book has theories explained elaborately along with Kotlin code and corresponding output to support the theoretical explanations. The Kotlin codes are provided with step-by-step comments to explain each instruction of the code.- The book is quite well balanced with programs and illustrative real-case problems. - The

book is not just explaining theoretical concepts of the language. Still, it explains how the full-fledged application can be developed using some latest tools and technologies and create an excellent Android application using Kotlin.- Few of the chapter offers the quiz at the end of it. And you can revise the concepts quickly.- A rich sample application is created to demonstrate Kotlin's capability in various parts of the application.- Quite the latest concepts are discussed in depth. For example, Flow,

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NavigationComponent, Coroutine, ViewModel, and LiveData. WHAT WILL YOU LEARN - Know the basics and many advanced concepts of Android. Able to code in Kotlin for your Android application.- You will know how architecture components can be used in Android application with Kotlin.- Writing tests that use coroutine, Flow, LiveData, and ViewModel.- What measures you need to take before you put an application in production.- How agile practices can be applied before and after the

application development is started.WHO THIS BOOK IS FOR The book is for readers with basic programming and android application development skills. The book is for any engineering graduates that wish to use Kotlin as a programming language for their Android application or wish to build a career in this direction. This book can also be useful for those who want to learn how testing aspects work for Android applications. The use cases and programs discussed in the book are self-explanatory and detailed

with practical examples wherever necessary. This is why the book can be read by anyone who has an interest in Kotlin and Android and how applications are developed with the industry level standard maintained.

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**Make Your App Production
Ready10. Kotlin**

EverywhereAUTHOR BIO

**Hardik Trivedi is a computer
programmer and self-taught
Android application**

**development. He started
Android application**

development back in 2010.

**He is a Kotlin enthusiast and
an active community**

**speaker. He actively
contributes to Stack**

overflow and also writes a

**blog. An Android application
developer on his job, he has**

**worked in numerous
domains, for example,**

consumer internet, sports, banking, entertainment. He also mentors college students and professionals who want to develop their career in Android application development. As an active contributor in the community, he has delivered speeches for events hosted by GDG (Google Developer Group). He is already a co-author of "e;Kotlin Blueprints"e; - A book that explains how Kotlin can be used everywhere. In his personal life, he loves to travel, paint, and cook. In his retirement days, you may

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**find him owning a restaurant
and making lip-smacking
food for his customers. Your
Blog links: - <https://trivedihardik.wordpress.com/>Your
LinkedIn Profiles: LinkedIn
Profile of Hardik Trivedi
available at <https://www.linkedin.com/in/hardik-trivedi-a782381a/>**

**Get to know the building
blocks of Kotlin and best
practices when using quality
world-class applications
About This Book Learn to
build exciting and scalable
Android and web
applications (both the server-
side and client-side parts)**

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with your Kotlin skills Dive into the great ecosystem of Kotlin frameworks and libraries through projects that you'll build using this book This project-based guide contains clear instructions to help you extend your applications across a wide domain Who This Book Is For This practical guide is for programmers who are already familiar with Kotlin. If you are familiar with Kotlin and want to put your knowledge to work, then this is the book for you. Kotlin programming knowledge is a

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must. What You Will Learn
See how Kotlin's power and versatility make it a great choice to create applications across various platforms, and how it delivers business and technology benefits
Write a robust web applications using Kotlin with Spring Boot Write Android applications with ease using Kotlin Write rich desktop applications in Kotlin Learn how Kotlin can generate Javascript and how this can be used on client side and server side development Understand how native applications can

**be written with Kotlin/Native
Learn the practical aspects
of programming in each of
the applications In Detail
Kotlin is a powerful
language that has
applications in a wide variety
of fields. It is a concise, safe,
interoperable, and tool-
friendly language. The
Android team has also
announced first-class
support for Kotlin, which is
an added boost to the
language. Kotlin's growth is
fueled through carefully
designed business and
technology benefits. The
collection of projects**

demonstrates the versatility of the language and enables you to build standalone applications on your own. You'll build comprehensive applications using the various features of Kotlin. Scale, performance, and high availability lie at the heart of the projects, and the lessons learned throughout this book. You'll learn how to build a social media aggregator app that will help you efficiently track various feeds, develop a geospatial webservice with Kotlin and Spring Boot, build responsive web

applications with Kotlin, build a REST API for a news feed reader, and build a server-side chat application with Kotlin. It also covers the various libraries and frameworks used in the projects. Through the course of building applications, you'll not only get to grips with the various features of Kotlin, but you'll also discover how to design and prototype professional-grade applications. Style and approach Each chapter is independent and focuses on a unique technology, where Kotlin is used to build an

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example application.

**Together the chapters cover
a full spectrum.**

**Reactive Programming in
Kotlin**

**Android application
development with Kotlin**

Pro RESTful APIs

Spring REST

Cracking iPhone and

Android Native Development

Build Android Apps on

Google's Mobile Platform

**Android Things Quick Start
Guide**

A hands-on guide to Android
programming with Spring MVC,
Spring Boot, and Spring Security
Key Features Build native Android

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applications with Spring for AndroidExplore Reactive programming, concurrency, and multithreading paradigms for building fast and efficient applicationsWrite more expressive and robust code with Kotlin using its coroutines and other latest featuresBook Description As the new official language for Android, Kotlin is attracting new as well as existing Android developers. As most developers are still working with Java and want to switch to Kotlin, they find a combination of these two appealing. This book addresses this interest by bringing together Spring, a widely used Java SE framework for building enterprise-grade applications, and

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Kotlin. Learn Spring for Android Application Development will guide you in leveraging some of the powerful modules of the Spring Framework to build lightweight and robust Android apps using Kotlin. You will work with various modules, such as Spring AOP, Dependency Injection, and Inversion of Control, to develop applications with better dependency management. You ' ll also explore other modules of the Spring Framework, such as Spring MVC, Spring Boot, and Spring Security. Each chapter has practice exercises at the end for you to assess your learning. By the end of the book, you will be fully equipped to develop Android

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applications with Spring technologies. What you will learnGet to grips with the basics of the Spring FrameworkWrite web applications using the Spring Framework with KotlinDevelop Android apps with KotlinConnect a RESTful web service with your app using RetrofitUnderstand JDBC, JPA, MySQL for Spring and SQLite Room for AndroidExplore Spring Security fundamentals, Basic Authentication, and OAuth2Delve into Concurrency and Reactive programming using KotlinDevelop testable applications with Spring and AndroidWho this book is for If you 're an aspiring Android developer or an existing developer who wants to learn how to use

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Spring to build robust Android applications in Kotlin, this book is for you. Though not necessary, basic knowledge of Spring will assist with understanding key concepts covered in this book. Android Programming: The Big Nerd Ranch Guide is an introductory Android book for programmers with Kotlin experience. Based on Big Nerd Ranch ' s popular Android Bootcamp, this guide will lead you through the wilderness using hands-on example apps combined with clear explanations of key concepts and APIs. This book focuses on practical techniques for developing apps in Kotlin compatible with Android 5.0

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(Lollipop) through Android 8.1 (Oreo) and beyond. Write and run code every step of the way, using Android Studio to create apps that integrate with other apps, download and display pictures from the web, play sounds, and more. Each chapter and app has been designed and tested to provide the knowledge and experience you need to get started in Android development. The Android team is constantly improving and updating Android Studio and other tools. As a result, some of the instructions provided in the book have changed. You can find an addendum addressing breaking changes at: <https://github.com/bignerdranch/AndroidCourse>

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Resources/raw/master/4thEdition/
Errata/4eAddendum.pdf.

The definitive guide to building data-driven Android applications for enterprise systems Android devices represent a rapidly growing share of the mobile device market. With the release of Android 4, they are moving beyond consumer applications into corporate/enterprise use.

Developers who want to start building data-driven Android applications that integrate with enterprise systems will learn how with this book. In the tradition of Wrox Professional guides, it thoroughly covers sharing and displaying data, transmitting data to enterprise applications, and

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much more. Shows Android developers who are not familiar with database development how to design and build data-driven applications for Android devices and integrate them with existing enterprise systems Explores how to collect and store data using SQLite, share data using content providers, and display data using adapters Covers migrating data using various methods and tools; transmitting data to the enterprise using web services; serializing, securing, and synchronizing data Shows how to take advantage of the built-in capabilities of the Android OS to integrate applications into enterprise class systems Enterprise Android

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prepares any Android developer to start creating data-intensive applications that today ' s businesses demand.

REST architecture (style) is a pivot of distributed systems, simplify data integration amongst modern and legacy applications leverages through the RESTful paradigm.

This book is fully loaded with many RESTful API patterns, samples, hands-on implementations and also discuss the capabilities of many REST API frameworks for Java, Scala, Python and Go

Create Python Web Services with MySQL

Developing RESTful web APIs in Java

Kotlin Blueprints

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Kickstart Modern Android
Development with Jetpack and
Kotlin

Cross-Platform Mobile Apps
Without the Kludge

The Definitive Guide to Firebase
Asynchronous Android
Programming

*Explore modern Android
development in Kotlin 1.6.10 with
this condensed hands-on guide
to building reliable apps using
libraries such as Compose,
ViewModel, Hilt, Retrofit, Flow,
and more Key Features • Explore
Jetpack libraries and other
modern technologies for Android
development • Improve the
architectural design of your*

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Android apps • Enhance the quality of your Android projects' code bases and applications using the latest libraries **Book Description** *With Jetpack libraries, you can build and design high-quality, robust Android apps that have an improved architecture and work consistently across different versions and devices. This book will help you understand how Jetpack allows developers to follow best practices and architectural patterns when building Android apps while also eliminating boilerplate code. Developers working with Android and Kotlin will be able to put their*

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knowledge to work with this condensed practical guide to building apps with the most popular Jetpack libraries, including Jetpack Compose, ViewModel, Hilt, Room, Paging, Lifecycle, and Navigation. You'll get to grips with relevant libraries and architectural patterns, including popular libraries in the Android ecosystem such as Retrofit, Coroutines, and Flow while building modern applications with real-world data. By the end of this Android app development book, you'll have learned how to leverage Jetpack libraries and your knowledge of architectural concepts for

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building, designing, and testing robust Android applications for various use cases. What you will learn

- Integrate popular Jetpack libraries such as Compose, ViewModel, Hilt, and Navigation into real Android apps with Kotlin*
- Apply modern app architecture concepts such as MVVM, dependency injection, and clean architecture*
- Explore Android libraries such as Retrofit, Coroutines, and Flow*
- Integrate Compose with the rest of the Jetpack libraries or other popular Android libraries*
- Work with other Jetpack libraries such as Paging and Room while integrating a real REST API that*

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supports pagination • Test Compose UI and the application logic through unit tests Who this book is for This book is for junior and intermediate-level Android developers looking to level up their Android development skills to develop high-quality apps using Jetpack libraries and other cutting-edge technologies. Beginners with knowledge of Android development fundamentals will also find this book useful. Familiarity with Kotlin is assumed. This book constitutes the proceedings of the 19th International Conference on Service-Oriented Computing,

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ICSOC 2020, which is held virtually in November 2021. The 29 full, 28 short, and 3 vision papers included in this volume were carefully reviewed and selected from 189 submissions. They were organized in topical sections named: Blockchains and smart contracts, Architectures, microservices and APIs, Applications, Internet-of-Things, crowdsourced, social, and conversational services, Service composition and recommendation, Cloud computing, and Edge computing. Android continues to be one of the leading mobile OS and development platforms driving

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today's mobile innovations and the apps ecosystem. Android appears complex, but offers a variety of organized development kits to those coming into Android with differing programming language skill sets. Android Recipes: A Problem-Solution Approach, Third Edition offers more than 100 down-to-earth code recipes, and guides you step-by-step through a wide range of useful topics using complete and real-world working code examples. It's updated to include the KitKat Android 4.4 SDK as well as earlier releases. Instead of abstract descriptions of complex concepts, in Android

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Recipes, you'll find live code examples. When you start a new project you can consider copying and pasting the code and configuration files from this book and then modifying them for your own customization needs.

Crammed with insightful instruction and helpful examples, this third edition of Android Recipes is your guide to writing apps for one of today's hottest mobile platforms. It offers pragmatic advice that will help you get the job done quickly and well. This can save you a great deal of work over creating a project from scratch!

Presents instructions for creating

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Android applications for mobile devices using Java.

Health Technologies and Innovations to Effectively Respond to the COVID-19 Pandemic

*Android Programming
19th International Conference,
ICSOC 2021, Virtual Event,
November 22–25, 2021,
Proceedings*

Design, develop, and deploy highly adaptable, scalable, and secure RESTful web APIs

Android Recipes

Android in Action

Restlet in Action

Discover the RESTful technologies, including REST, JSON, XML, JAX-

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RS web services, SOAP and more, for building today's microservices, big data applications, and web service applications. This book is based on a course the Oracle-based author is teaching for UC Santa Cruz Silicon Valley which covers architecture, design best practices and coding labs. Pro RESTful APIs: Design gives you all the fundamentals from the top down: from the top (architecture) through the middle (design) to the bottom (coding). This book is a must have for any microservices or web services developer building applications and services. What You'll Learn Discover the key RESTful APIs, including REST, JSON, XML, JAX, SOAP and more Use these for web services and data exchange,

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*especially in today's big data context
Harness XML, JSON, REST, and
JAX-RS in examples and case studies
Apply best practices to your solutions'
architecture Who This Book Is For
Experienced web programmers and
developers.*

*This book reveals about android
networking libraries, it's architecture
& with furnishes flawless practical
stuff.*

*Develop RESTful web services using
the Flask micro-framework and
integrate them using MySQL. Use
Flask to develop, deploy, and manage
REST APIs with easy-to-read and
understand Python code. Solve your
problem from a choice of libraries.
Learn to use MySQL as the web
services database for your Flask API*

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using SQLAlchemy ORM. Building REST APIs with Flask provides a primer on Flask, RESTful services, and working with pip to set up your virtual environment. The key differences between NoSQL and SQL are covered, and you are taught how to connect MySQL and Flask using SQLAlchemy. Author Kunal Relan presents best practices for creating REST APIs and guides you in structuring your app and testing REST endpoints. He teaches you how to set up authentication and render HTML using views. You learn how to write unit tests for your REST APIs, and understand mocks, assertions, and integration testing. You will know how to document your REST APIs, deploy your Flask application on all

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of the major cloud platforms, and debug and monitor your Flask application. What You'll Learn Use MySQL to create Flask REST APIs Test REST endpoints Create CRUD endpoints with Flask and MySQL Deploy Flask on all of the major cloud platforms Monitor your Flask application Who This Book Is For Python developers interested in REST API development using Flask and web developers with basic programming knowledge who want to learn how Python and REST APIs work together. Readers should be familiar with Python (command line, or at least pip) and MySQL. Plan how to build a better app, grow it into a business, and earn money from your hard work using Firebase. In

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*this book, Laurence Moroney, Staff Developer Advocate at Google, takes you through each of the 15 Firebase technologies, showing you how to use them with concrete examples. You'll see how to build cross-platform apps with the three pillars of the Firebase platform: technologies to help you develop apps with a real-time database, remote configuration, cloud messaging, and more; grow your apps with user sharing, search integration, analytics, and more; and earn from your apps with in-app advertising. After reading *The Definitive Guide to Firebase*, you'll come away empowered to make the most of this technology that helps you build better cross-platform mobile apps using either native Android or JavaScript-*

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based web apps and effectively deploy them in a cloud environment. What You'll Learn Use the real-time database for a codeless middleware that gives online and offline data for syncing across your users' devices Master Firebase Cloud Messaging, a technology that delivers to connected devices in less than 500ms Grow your app organically with technologies such App Indexing, App Invites, and Dynamic Links Understand problems when they arise with crash reporting Fix user problems without direct access to users' devices Tie it all together with analytics that give you great intelligence about how users interact with your app Who This Book Is For Experienced Android, mobile app developers new to Firebase. This

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book is also for experienced web developers looking to build and deploy web apps for smartphones and tablets, too, who may be new or less experienced with mobile programming.

A practical guide to building industry-grade web, mobile, and desktop applications in Kotlin using frameworks such as Spring Boot and Node.js

Advances in Parallel, Distributed Computing

Design and build non-blocking, asynchronous Kotlin applications with RXKotlin, Reactor-Kotlin, Android, and Spring

Your one-stop solution to passing the AWS developer's 2019 (DVA-C01) certification, 2nd Edition

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Part II

Android Best Practices

Arduino Android Blueprints

Android Things is the new Android based Operating System for the Internet of Things. With this book you will learn the core concepts by running code examples on different peripherals. Key Features No previous knowledge of IoT or microcontrollers required. Hands-On with simple code and plenty of examples. Use Kotlin to write simpler and more readable code Book

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Description Android

Things is the IoT platform made by Google, based on Android. It allows us to build smart devices in a simple and convenient way, leveraging on the Android ecosystem tools and libraries, while letting Google take care of security updates. This book takes you through the basics of IoT and smart devices. It will help you to interact with common IoT device components and learn the underlying

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protocols. For a simple setup, we will be using Rainbow HAT so that we don't need to do any wiring. In the first chapter, you will learn about the Android Things platform, the design concepts behind it, and how it relates to other IoT frameworks. We will look at the Developer Kits and learn how to install Android Things on them by creating a simple project. Later, we will explore the real power of Android Things, learning how to make a

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UI, designing and communicating with companion apps in different ways, showcasing a few libraries. We will demonstrate libraries and you will see how powerful the Android Things operating system is. What you will learn

Understand key design concepts of Android Things and its advantages

Set up an Android Things Developer Kit

Interact with all the components of Rainbow HAT

Understand

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how peripheral protocols work (GPIO, PWM, I2C, and SPI) Implement best practices of how to handle IoT peripherals with in terms Android Things Develop techniques for building companion apps for your devices Who this book is for This book is for developers who have a basic knowledge of Android and want to start using the Android Things developer kit. WordPress is much more than a blogging platform. If you have

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basic PHP, HTML, CSS,
and JavaScript
experience you can use
WordPress to develop
fast, scalable, secure,
and highly customized
web apps, mobile apps,
web services, and
multisite networks of
websites. Along with
core WordPress functions
and database schema,
you'll learn how to
build custom plugins,
themes, and services for
just about any kind of
web or mobile
application. In this
updated second edition,

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Brian Messenlehner and Jason Coleman cover new features and functionality added to WordPress up to version 5.4. All code examples in the book are available on GitHub.

Compare WordPress with traditional app development frameworks Use themes for views and plugins for backend functionality Get suggestions for choosing or building WordPress plugins Register custom post types (CPTs) and taxonomies Manage user

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accounts and roles, and access user data Build asynchronous behaviors with jQuery Use WordPress to develop mobile apps for iOS and Android Integrate PHP libraries, external APIs, and web service plugins Collect payments through ecommerce and membership plugins Learn how to speed up and scale your WordPress app Extend the WordPress REST API and create custom endpoints Learn about WordPress Gutenberg blocks

Access Free Create Rest Api For Android App Using Php And Mysql development

This three-volume set of books highlights major advances in the development of concepts and techniques in the area of new technologies and architectures of contemporary information systems. Further, it helps readers solve specific research and analytical problems and glean useful knowledge and business value from the data. Each chapter provides an analysis of a specific technical problem, followed by a

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numerical analysis, simulation and implementation of the solution to the real-life problem. Managing an organisation, especially in today's rapidly changing circumstances, is a very complex process. Increased competition in the marketplace, especially as a result of the massive and successful entry of foreign businesses into domestic markets, changes in consumer behaviour, and broader

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access to new technologies and information, calls for organisational restructuring and the introduction and modification of management methods using the latest advances in science. This situation has prompted many decision-making bodies to introduce computer modelling of organisation management systems. The three books present the peer-reviewed proceedings of the 39th International

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Conference “Information Systems Architecture and Technology” (ISAT), held on September 16–18, 2018 in Nysa, Poland. The conference was organised by the Computer Science and Management Systems Departments, Faculty of Computer Science and Management, Wrocław University of Technology and Sciences and University of Applied Sciences in Nysa, Poland. The papers have been grouped into three major parts: Part I—discusses topics

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including but not limited to Artificial Intelligence Methods, Knowledge Discovery and Data Mining, Big Data, Knowledge Based Management, Internet of Things, Cloud Computing and High Performance Computing, Distributed Computer Systems, Content Delivery Networks, and Service Oriented Computing. Part II—addresses topics including but not limited to System Modelling for Control, Recognition and Decision

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Support, Mathematical Modelling in Computer System Design, Service Oriented Systems and Cloud Computing, and Complex Process Modelling. Part III—focuses on topics including but not limited to Knowledge Based Management, Modelling of Financial and Investment Decisions, Modelling of Managerial Decisions, Production Systems Management and Maintenance, Risk Management, Small

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Business Management, and
Theories and Models of
Innovation.

Develop a fully
functional and dynamic
Android application
using the latest
features of Firebase Key
Features Explore all the
latest tools in
Firebase—Firebase
Firestore, ML-Kit, and
Firebase Predictions
Master Firebase cloud
messaging, remote
configuration, and work
with a real-time
database Make your app a
global success with the

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help of Google Analytics
and AdMob Book

Description Firebase

offers a wide spectrum
of tools and services to

help you develop high-
quality apps in a short

period of time. It also

allows you to build web

and mobile apps quickly

without managing the

infrastructure. Mastering

Firebase for Android

Development takes you

through the complete

toolchain of

Firebase, including the

latest tools announced

in Google IO 2018 such

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as Firebase ML-Kit, FireStore, and Firebase Predictions. The book begins by teaching you to configure your development environment with Firebase and set up a different structure for a Firebase real-time database. As you make your way through the chapters, you'll establish the authentication feature in Android and explore email and phone authentication for managing the on-boarding of users. You'll be

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taken through topics on Firebase crash reporting, Firebase functions, Firebase Cloud, Firebase Hosting, and Cloud Messaging for push notifications and explore other key areas in depth. In the concluding chapters, you will learn to use Firebase Test Lab to test your application before using Firebase Performance Monitoring to trace performance setbacks. By the end of the book, you will be well equipped with the

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Firebase ecosystem,
which will help you find
solutions to your common
application development
challenges. What you
will learn Learn about
Firebase push
notifications and write
backend functionalities
Identify the root cause
of an application crash
and diagnose and fix
bugs Store different
Multipurpose Internet
MailExtension(MIME) type
files Explore web
hosting and connect the
Firebase functions to
the host website Send

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push notifications and understand the deep integration of analytics tools and cohorts Market and monetize your application using Firebase Adwords and Admob Build a secure authentication framework while enhancing the sign-in and on-boarding experience for end users Who this book is for Mastering Firebase for Android Development is for individuals looking to extend their skills with Firebase and build faster, scalable, and

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real-time mobile applications. Basic understanding of Android programming is necessary. In all, this in-depth guide is an accessible pathway to mastering Firebase.

Building REST APIs with Flask

Programming Android

Android Apps for

Absolute Beginners

Hands-On RESTful API

Design Patterns and Best Practices

Service-Oriented

Computing

Covering Android 7

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Build robust Android
applications with Kotlin
1.3 and Spring 5

***A practical tutorial to get you
up and running with the
revolutionary WordPress
REST API About This Book
Learn how to run the latest
WordPress REST API with
various platforms Create
exciting apps and manage non-
WordPress content with them
Secure, export, and manage
your data through illustrative
examples Who This Book Is
For This book is for
WordPress developers and
designers who want to get a
complete practical
understanding of the
WordPress REST API and***

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leverage it to create fully-featured web apps. What You Will Learn Use the WordPress REST API to read, write, and edit posts Create and work with metadata using the WordPress REST API Work with taxonomies using the REST API Add custom routes and build apps using the WordPress REST API Process requests and integrate with external applications and frameworks Make your WordPress projects ready for the RESTful API standard In Detail The WordPress REST API is a recent innovation that has the potential to unlock several new opportunities for WordPress developers. It can help you integrate with

technologies outside of WordPress, as well as offer great flexibility when developing themes and plugins for WordPress. As such, the REST API can make developers' lives easier. The book begins by covering the basics of the REST API and how it can be used along with WordPress. Learn how the REST API interacts with WordPress, allowing you to copy posts and modify post metadata. Move on to get an understanding of taxonomies and user roles are in WordPress and how to use them with the WordPress REST API. Next, find out how to edit and process forms with AJAX and how to create

custom routes and functions. You will create a fully-functional single page web app using a WordPress site and the REST API. Lastly, you will see how to deal with the REST API in future versions and will use it to interact it with third-party services. By the end of the book, you will be able to work with the WordPress REST API to build web applications. Style and Approach A step by step tutorial to explain the new and exciting world of the WordPress REST API with the real world examples. Spring REST is a practical guide for designing and developing RESTful APIs using the Spring Framework.

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This book walks you through the process of designing and building a REST application while taking a deep dive into design principles and best practices for versioning, security, documentation, error handling, paging, and sorting. This book provides a brief introduction to REST, HTTP, and web infrastructure. You will learn about several Spring projects such as Spring Boot, Spring MVC, Spring Data JPA, and Spring Security and the role they play in simplifying REST application development. You will learn how to build clients that consume REST services. Finally, you will learn how to use the Spring MVC test

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framework to unit test and integration test your REST API. After reading this book, you will come away with all the skills to build sophisticated REST applications using Spring technologies.

Learn how to implement Reactive Programming paradigms with Kotlin, and apply them to web programming with Spring Framework 5.0 and in Android Application Development.

About This Book Learn how to solve blocking user experience with Reactive Programming and get deep insights into RxKotlin Integrate Reactive Kotlin with Spring and build fantastic

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***Android Apps with RxKotlin
and RxAndroid Build reactive
architectures that reduce
complexity throughout the
development process and
make your apps(web and
Android) scalable Who This
Book Is For This book is for
Kotlin developers who would
like to build fault-tolerant,
scalable, and distributed
systems. A basic knowledge of
Kotlin is required, but no
prior knowledge of reactive
programming. What You Will
Learn Learn about reactive
programming paradigms and
how reactive programming
can improve your existing
projects Gain in-depth
knowledge in RxKotlin 2.0 and
the ReactiveX Framework Use***

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***RxKotlin with Android Create
your own custom operators in
RxKotlin Use Spring
Framework 5.0 with Kotlin
Use the reactor-kotlin
extension Build Rest APIs
with Spring,Hibernate, and
RxKotlin Use testSubscriber
to test RxKotlin applications
Use backpressure
management and Flowables In
Detail In today's app-driven
era, when programs are
asynchronous, and
responsiveness is so vital,
reactive programming can
help you write code that's
more reliable, easier to scale,
and better-performing.
Reactive programming is
revolutionary. With this
practical book, Kotlin***

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developers will first learn how to view problems in the reactive way, and then build programs that leverage the best features of this exciting new programming paradigm. You will begin with the general concepts of Reactive programming and then gradually move on to working with asynchronous data streams. You will dive into advanced techniques such as manipulating time in data-flow, customizing operators and provider and how to Use the concurrency model to control asynchronicity of code and process event handlers effectively. You will then be introduced to functional reactive programming and

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will learn to apply FRP in practical use cases in Kotlin. This book will also take you one step forward by introducing you to spring 5 and spring boot 2 using Kotlin. By the end of the book, you will be able to build real-world applications with reactive user interfaces as well as you'll learn to implement reactive programming paradigms in Android. Style and Approach Loaded with numerous code examples and real-life projects, this book helps you delve into Reactive Programming with Kotlin, and apply it to real-world Spring-web and Android projects, thus making all your apps

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reactive.

You've developed a killer app for one mobile device—now it's time to maximize your intellectual investment and develop for the full spectrum of mobile platforms and devices. With Cracking iPhone and Android Native Development, you'll learn how to quickly retool between the iPhone and Android platforms and broaden the interest and audience of your app, without working with burdensome and error-prone compatibility layers and toolkits. Cracking iPhone and Android Native Development takes you, the developer, through the same mobile software development project on both platforms,

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learning the differences between and the relative strengths and weaknesses of each platform as you go. No magic intermediate layers of obfuscation—by the time you get to the end, you'll be an expert at developing for any of the major smartphone platforms using each vendor's preferred toolset and approach. Cracking iPhone and Android Native Development covers the iPhone and Android platforms, two of the hottest mobile device platforms on the market today.

AWS Certified Developer - Associate Guide

Beginning Android Games Develop for Android using

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And Mysql

HTML5, CSS3 & JavaScript

Expert Delphi

Pro Android Web Apps

Enterprise Android

**Enhance your applications by
integrating Jetpack and
applying modern app
architectural concepts**

*Beginning Android Games
offers everything you need
to join the ranks of
successful Android game
developers. You'll start
with game design
fundamentals and programming
basics, and then progress
towards creating your own
basic game engine and
playable games. This will
give you everything you need
to branch out and write your
own Android games. The*

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potential user base and the wide array of available high-performance devices makes Android an attractive target for aspiring game developers. Do you have an awesome idea for the next break-through mobile gaming title? Beginning Android Games will help you kick-start your project. The book will guide you through the process of making several example games for the Android platform, and involves a wide range of topics: The fundamentals of game development The Android platform basics to apply those fundamentals in the context of making a game The design of 2D and 3D games

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and their successful implementation on the Android platform For those looking to learn about Android tablet game app development or want Android 4 SDK specific coverage, check out Beginning Android 4 Games Development, now available from Apress. Although enterprise mobility is in high demand across domains, an absence of experts who have worked on enterprise mobility has resulted in a lack of books on the subject. A Comprehensive Guide to Enterprise Mobility fills this void. It supplies authoritative guidance on all aspects of enterprise

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mobility-from technical aspects and applications to Android Programming: The Big Nerd Ranch Guide: is an introductory Android book for programmers with Java experience. Based on Big Nerd Ranch's popular Android Bootcamp course, this guide will lead you through the wilderness using hands-on example apps combined with clear explanations of key concepts and APIs. This book focuses on practical techniques for developing apps compatible with all versions of Android widely used today (Android 2.2 - 4.2). Write and run code every step of the way - creating apps that catalog

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crime scenes, browse photos, track your jogging route, and more. Each chapter and app has been designed and tested to provide the knowledge and experience you need to get started in Android development. Write and run code every step of the way – creating apps that catalog crime scenes, browse photos, track your jogging route, and more. Each chapter and app has been designed and tested to provide the knowledge and experience you need to get started in Android development. "Big Nerd Ranch provided the training we needed to get hundreds of engineers building

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skillfully on Android. This book is a great distillation of that training and will be a huge help to anyone looking to ramp up as well."

- Mike Shaver, Director of Mobile Engineering, Facebook

"...a must-have for the developer just starting in Android or ready for more advanced techniques. I was impressed with this book's content and clarity of presentation. The authors explain simple and complex Android topics with equal ease." - James Steele,

author of *The Android Developer's Cookbook*
Developing applications for Android and other mobile devices using web

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technologies is now well within reach. When the capabilities of HTML5 are combined with CSS3 and JavaScript, web application developers have an opportunity to develop compelling mobile applications using familiar tools. Not only is it possible to build mobile web apps that feel as good as native apps, but to also write an application once and have it run a variety of different devices. While the HTML5 specification is still evolving, there is a lot that can be used right now to build mobile web apps. Mobile web apps are now starting to provide many of

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the features that were once only available to native-language-based apps in Java, Objective-C, etc. Pro Android Web Apps teaches developers already familiar with web application development, how to code and structure a web app for use on the Android mobile platform. Understand both the why and how of mobile web app development, focusing on the Android platform. Learn how to structure mobile web apps through a number of practical, real-world application examples. Discover what cloud platforms such as Google AppEngine have to offer

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Android web apps, for both hosting web apps and providing device to cloud data synchronization solutions. Get a real picture of the status of HTML5 on Android and other mobile devices, including some things to watch out for when building your own applications. Understand the capabilities of the web application stack, and how to complement those with native bridging frameworks such as PhoneGap to access native features of the device. Gain an understanding of the different UI frameworks that are available for building mobile web apps. Learn how

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to include mapping and leverage location-based services in mobile web apps to create engaging mobile experiences. Enable social integration with your Android web app and gain access to millions of potential users. After reading this book, you will not only have a greater understanding of the world of web apps on Android, but also how to leverage additional tools and frameworks to increase the reach of your mobile web apps. Additionally, through the practical samples in the book you will have been given solid exposure of where both the opportunities

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and challenges lie when building mobile apps the web way.

*RESTful Java with JAX-RS
Information Systems
Architecture and Technology:
Proceedings of 39th
International Conference on
Information Systems
Architecture and Technology
- ISAT 2018*

*First International
Conference on Parallel,
Distributed Computing
Technologies and
Applications, PDCTA 2011,
Tirunelveli, Tamil Nadu,
India, September 23-25,
2011, Proceedings*

*Kotlin Programming By
Example*

Mastering Firebase for

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Android Development

*Build real-world Android and
web applications the Kotlin
way*

*Programming Android Database
Applications for the
Enterprise*

*This book is for those who want to
learn how to build exciting Arduino
projects by interfacing it with
Android. You will need to have some
basic experience in electronics and
programming. However, you don't
need to have any previous experience
with the Arduino or Android
platforms.*

*Become a developer superhero and
build stunning cross-platform apps
with Delphi About This Book A one-
stop guide on Delphi to help you build*

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cross-platform apps This book covers important concepts such as the FireMonkey library, shows you how to interact with the Internet of Things, and enables you to integrate with Cloud services The code is explained in detail with observations on how to create native apps for Ios and Android with a single code base Who This Book Is For If you want to create stunning applications for mobile, desktop, the cloud, and the Internet of Things, then this book is for you. This book is for developers who would like to build native cross-platform apps with a single codebase for iOS and Android. A basic knowledge of Delphi is assumed, although we do cover a primer on the

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language. What You Will Learn

Understand the basics of Delphi and the FireMonkey application platform as well as the specifics of Android and iOS platforms Complete complex apps quickly with access to platform features and APIs using a single, easy-to-maintain code base Work with local data sources, including embedded SQL databases, REST servers, and Backend-as-a-Service providers Take full advantage of mobile hardware capabilities by working with sensors and Internet of Things gadgets and devices Integrate with cloud services and data using REST APIs and scalable multi-tier frameworks for outstanding multi-user and social experience Architect

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and deploy powerful mobile back-end services and get super-productive by leveraging Delphi IDE agile functionality Get to know the best practices for writing a high-quality, reliable, and maintainable codebase in the Delphi Object Pascal language In Detail Delphi is the most powerful Object Pascal IDE and component library for cross-platform native app development. It enables building natively compiled, blazingly fast apps for all major platforms including Android, iOS, Windows, Mac, and Linux. If you want to build server-side applications, create web services, and have clear GUIs for your project, then this book is for you. The book begins with a basic primer on Delphi

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helping you get accustomed to the IDE and the Object Pascal language and will then quickly move on to advanced-level concepts. Through this book, we'll help you understand the architecture of applications and will teach you the important concepts of the FireMonkey library, show you how to build server-side services, and enable you to interact with the Internet of Things. Towards the end, you will learn to integrate your app with various web services and deploy them. By the end of the book, you will be able to build powerful, cross-platform, native apps for iOS and Android with a single code base. Style and approach This book will help you build cross-platform mobile apps with

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Delphi using a step-by-step approach.

Enhance your Kotlin programming skills by building 3 real-world applications

Key Features Build three full-fledged, engaging applications

from scratch and learn to deploy

them Enhance your app development

and programming activities with

Kotlin's powerful and intuitive tools

and utilities. Experience the gentle

learning curve, expressiveness, and

intuitiveness of Kotlin, as you develop

your own applications Book

Description Kotlin greatly reduces the

verbosity of source code. With Google

having announced their support for

Kotlin as a first-class language for

writing Android apps, now's the time

learn how to create apps from scratch

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with Kotlin Kotlin Programming By Example takes you through the building blocks of Kotlin, such as functions and classes. You'll explore various features of Kotlin by building three applications of varying complexity. For a quick start to Android development, we look at building a classic game, Tetris, and elaborate on object-oriented programming in Kotlin. Our next application will be a messenger app, a level up in terms of complexity. Before moving onto the third app, we take a look at data persistent methods, helping us learn about the storage and retrieval of useful applications. Our final app is a place reviewer: a web application that will make use of the

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Google Maps API and Place Picker.

By the end of this book, you will have gained experience of of creating and deploying Android applications using Kotlin. What you will learn Learn the building blocks of the Kotlin programming language Develop powerful RESTful microservices for Android applications Create reactive Android applications efficiently Implement an MVC architecture pattern and dependency management using Kotlin Centralize, transform, and stash data with Logstash Secure applications using Spring Security Deploy Kotlin microservices to AWS and Android applications to the Play Store Who this book is for This book is for those who are new to Kotlin or

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are familiar with the basics, having dabbled with Java until now. Basic programming knowledge is mandatory.

Learn how to design and develop distributed web services in Java using RESTful architectural principals and the JAX-RS specification in Java EE 6. With this hands-on reference, you'll focus on implementation rather than theory, and discover why the RESTful method is far better than technologies like CORBA and SOAP. It's easy to get started with services based on the REST architecture. RESTful Java with JAX-RS includes a technical guide that explains REST and JAX-RS, how they work, and when to use them. With the RESTEasy

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workbook that follows, you get step-by-step instructions for installing, configuring, and running several working JAX-RS examples using the JBoss RESTEasy implementation of JAX-RS. Work on the design of a distributed RESTful interface, and develop it in Java as a JAX-RS service Dispatch HTTP requests in JAX-RS, and learn how to extract information from them Deploy your web services within Java Enterprise Edition using the Application class, Default Component Model, EJB Integration, Spring Integration, and JPA Discover several options for securing your web services Learn how to implement RESTful design patterns using JAX-RS Write RESTful clients

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in Java using libraries and frameworks such as java.net.URL, Apache HTTP Client, and REStEasy Proxy

Learning WordPress REST API

Building Web Apps with WordPress

Learn Spring for Android Application Development

Build real-time, scalable, and cloud-enabled Android apps with Firebase

A Problem-Solution Approach

Beginning Android Games, Second Edition offers everything you need to join the ranks of successful Android game developers, including Android tablet game app development considerations. You'll start with game design fundamentals and programming basics, and then progress toward creating your own

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basic game engine and playable game apps that work on Android and earlier version compliant smartphones and now tablets. This will give you everything you need to branch out and write your own Android games. The potential user base and the wide array of available high-performance devices makes Android an attractive target for aspiring game developers. Do you have an awesome idea for the next break-through mobile gaming title? Beginning Android Games will help you kick-start your project. This book will guide you through the process of making several example game apps using APIs available in new Android SDK and earlier SDK releases for Android smartphones and tablets: The fundamentals of game development and design suitable for Android smartphones and tablets The Android

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platform basics to apply those fundamentals in the context of making a game, including new File Manager system and better battery life management The design of 2D and 3D games and their successful implementation on the Android platform This book lets developers see and use some Android SDK Jelly Bean; however, this book is structured so that app developers can use earlier Android SDK releases. This book is backward compatible like the Android SDK.

RESTful Java with JAX-RS"O'Reilly Media, Inc."

Android continues to be one of the leading mobile OS and development platforms driving today's mobile innovations and the apps ecosystem. Android appears complex, but offers a variety of organized development kits

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to those coming into Android with differing programming language skill sets. *Android Recipes: A Problem-Solution Approach* guides you step-by-step through a wide range of useful topics using complete and real-world working code examples. In this book, you'll start off with a recap of Android architecture and app fundamentals, and then get down to business and build an app with Google's Android SDK at the command line and Eclipse. Next, you'll learn how to accomplish practical tasks pertaining to the user interface, communications with the cloud, device hardware, data persistence, communications between applications, and interacting with Android itself. Finally, you'll learn how to leverage various libraries and Scripting Layer for Android (SL4A) to help you perform tasks more quickly,

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how to use the Android NDK to boost app performance, and how to design apps for performance, responsiveness, seamlessness, and more. Instead of abstract descriptions of complex concepts, in Android Recipes, you'll find live code examples. When you start a new project, you can consider copying and pasting the code and configuration files from this book, then modifying them for your own customization needs. This can save you a great deal of work over creating a project from scratch!

Get your first Android apps up and running with the help of plain English and practical examples. If you have a great idea for an Android app, but have never programmed before, then this book is for you. Android Apps for Absolute Beginners cuts through the

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fog of jargon and mystery that surrounds Android app development, and gives you simple, step-by-step instructions to get you started. This book teaches Android application development in language anyone can understand, giving you the best possible start in Android development. It provides clean, straightforward examples that make learning easy, allowing you to pick up the concepts without fuss. It offers clear code descriptions and layout so that you can get your apps running as soon as possible. Although this book covers what's new in Android 7, it is also backwards compatible to cover some of the previous Android releases. What You'll Learn Download, install, and configure the latest software needed for Android app development Work efficiently using an integrated

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development environment (IDE) Build useful, attractive applications and get them working immediately Create apps with ease using XML markup and drag-and-drop graphical layout editors Use new media and graphics to skin your app so that it has maximum appeal Create advanced apps combining XML, Java and new media content Who This Book Is For If you have a great idea for an Android app, but have never programmed before, then this book is for you. You don't need to have any previous computer programming skills — as long as you have a desire to learn and you know which end of the mouse is which, the world of Android apps development awaits.