KOENIG SOLUTIONS · COURSE OUTLINE

Android Application Development for End Users (Google)

Learn to build Android apps with Kotlin, covering UI layouts, data lists and local data storage.

4	16	4
MODULES	TOPICS	HANDS-ON LABS

COURSE OVERVIEW

This course introduces Kotlin fundamentals, including functions, classes, objects and extensions, before moving into Android app development. It covers building a first Android app, exploring Android components, directory structure, constraint layout, UI controls, event handling and fragments. The course then addresses displaying data through list views, recycler views, card views and dialog notifications. Finally, it covers working with data using shared preferences and internal SQLite databases.

WHO THIS COURSE IS FOR

Android Developers | **Mobile App Developers** | **Software Developers** | **Application Developers**

LEARNING OBJECTIVES

- Explain Kotlin basics including functions, classes and objects
- Apply Kotlin extensions within an application
- Build an Android app using constraint layout and UI controls
- Implement event handling and fragments in an Android app
- Configure list view, recycler view and card view for listing data
- Apply dialog notifications within an Android app
- Implement shared preferences for storing application data
- Develop CRUD operations using an internal SQLite database

COURSE SYLLABUS

4 Modules, 16 Topics

01 Lab

An Introduction to Kotlin

TOPICS

Kotlin Basics · Functions · Class & Objects · Extensions

02 Lab

Hello World with Android

TOPICS

Build your First App- Hello World · Android Components · Android Directory Structure · Constraint Layout · UI Control and Event Handling · An Overview of Fragment

03 Lab

Listing Data

TOPICS

List View · Recycler View · Card View · Dialog Notification

04 Lab

Working with Data

TOPICS

Shared Preferences · Internal Databases - SQLite

HANDS-ON LABS

Practise What You Learn

#	MODULE	ACTIVITY
01	**An Introduction to Kotlin**	Hello Kotlin with OOPS concept
02	**Hello World with Android**	Create Login Application with Register and Account Screen
03	**Listing Data**	Update the Lab2 Application with Listing Data in Account Screen using Recycler View
04	**Working with Data**	Finish the Lab 2Application by integrating SQLite for CRUD operation

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

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