



# Android App Development

# **Course Curriculum**

# Android App Development

## 01 Mission

Learn to build Android apps from scratch and how industry experts design Android Architectures. Use some of the famous libraries, and design beautiful User Interface.

## 02 Course Description

Produce cloud-connected Android apps, and learn the tools, principles, and best practices of mobile and Android development that you'll apply to your own projects.

## 03 Prerequisites

- General Requirements

You are enthusiastic and motivated to learn. Participation in this course requires consistently meeting project deadlines and active participation.

- Program-Specific Requirements

You have access to a computer with an internet connection, on which you'll install the latest Android Studio with SDK 23.

You can independently solve and describe your solution to a math or programming problem.

## 04 Jobs Which You Can Apply

Android Developer

# Android App Development

## 05 Projects

1. Book Search
2. Movies App - Material Design
3. Quiz App

## 06 Skills you will learn

1. Responsive Design
2. Material Design
3. Networking, Gradle
4. Libraries
5. Retrofit and Gson

Estimated Time	Modules	Project or Target	Learning Outcomes
Day 1 & 2	<b>Module 1</b> Java	Java	Collection, OOPS, Exceptions
Day 3 & 4	<b>Module 2</b> Android Basics	Android Architecture	Android Architecture, Activities, Intent, XML, attributes, Lifecycle
Day 5 & 6	<b>Module 3</b> Android Single Screen	Quiz App	Parent layouts (Linear, Relative), Image, Button, Text, EditText, ConstraintLayout
Day 7 & 8			
Day 9 & 10	<b>Module 4</b> Permissions and Networking	Search Books [Google Books API]	HTTP [GET, POST, DELETE, PUT], API, JSON, Permissions, Menus, Multi-threading
Day 11 & 12			
Day 13 & 14	<b>Module 5</b> Android Multi-screen UI	Movies UI [TMDB API]	Fragments, RecyclerView, Tabs, BottomTab, Material Design
Day 15 & 16			
Day 17 & 18	<b>Module 6</b> Libraries: Retrofit, gson	Movies API [TMDB API]	Retrofit and Glide, gradle (build system)
Day 19 & 20			

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