

# ANDROID APP #CodingMtlbVMM Development

**VMM  
EDUCATION**

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## Introduction to Android Apps

About Android Apps, History Versions , Various features understanding APP life cycle

## Setting up Android Studio

Installing Android Studio , Using Gradle setting up Android Simulator and launching your first simple message APP

## Creating your first APP

understand and creating activities, understanding XML and Java files ,Pushing APP to emulator or device

## Components to create Android APP

using various components and layouts to design APP working with activities of GUI , List views and grid views

## Services & Background Logics

Working with services and writing background logics for APP and broadcasts receivers to interactive with other Apps

## Working with output

Creating Toast , Status bar, Dialogues, progress dialogues, creating list to display data in various formats

## Permissions & Notifications & Storage

Adding runtime permissions and generating notifications using SQLITE to store and retrieve data in APPs

## Using various device features

Accessing photos data, Camera, Gallery, working with location services and google Maps, various sensors .

## Advanced features of Android Apps

Generating Notifications and Push Notifications from Cloud. Additional Material Design Components.

## Using Serverless Cloud Computing ( Firebase )

Using cloud services to create scalable APP

- introduction to firebase
- connecting and storing data on firebase using Android APP
- Concept of Real Time Database
- Using cloud storage
- concept of push notifications
- Authentication Service
- Static Hosting using firebase
- using ML Kit of firebase
- Using Cloud Functions in Firebase



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