

Short Term Course on Development of Android Application

(1st to 10th June 2018)



Overview: Android Application Development is a hands-on course which is designed for providing essential skills and experiences to the students in developing applications on mobile platform. The hands-on training is effective for beginners and experienced developers for practical Android Code Application. Android is the most popular mobile platform in the entire world. The objective of this course is to expose anyone to the world of Android app development. Participants can learn the following content:

- Introduction to Android
- Android Architecture details and Explanation
- Introduction to Components of Android and functionality
- Build Android APP
- Introduction to SQ-Lite Database and Operations of DB
- Introduction to HTTP URL Request (API call to Server / Cloud Server)
- Introduction List View and Recycler View
- Design Material Navigation Drawer Design like Gmail Navigation Drawer
- GPS and Google Map Integration
- Android Push Notification
- Introduction to Fire Base
- Social Media Sign-In and Login (Face Book/ Google Integration and Development)
- Payment Getaway Integration (Example of PayPal and Other Payment Gateway)
- Android Web view and Web Page Display
- Real-time Application Development
- Introduction to Play Store and App Publishing



About Android App Development: Android is the platform that powers millions and millions of mobile devices in nearly 200 countries all around the world. Android can bring you games, apps, books, movies, music and similar digital content. Android is an open source project of the Open Handset Alliance that has revolutionized the user experience of a mobile device. Android is the platform that powers millions and millions of mobile devices in nearly 200 countries all around the world. Android can bring you games, apps, books, movies, music and similar digital content.

Agenda

Day	9:30-11:00		11:15-12:45		15:00-16.15		16:30-18:00
1	Introduction to Android		How to Install Android Studio, Android SDK, API version		Introduction to Components of Android and functionality		Activity (Create Activity, Life cycle of Activity, Property and Behavior of Activity)
2	Create Android Hello World Project and Explanation of Project Structure	Break	Introduction to android UI and UI component for Layout Design	Break	Introduction to android UI and UI component for Layout Design	Break	Create LOGIN and Register UI Screen (Form Design)
3	Introduction to SQ-Lite Database and Operations of DB		Introduction to HTTP URL Request (API call to Server / Cloud Server)		Http URL Request Using POST / GET /PUT/DELETE method		Upload / Download Image / Doc form android App to Server/ Cloud Server



4	Introductio		Cot Data Image		Introduction to		Marking with
	n List View		Get Data Image and Data from API		Adapter and		Working with Multi- Threading
	and		and Display in		Model Class		iviuiti- Tilleauliig
	Recycler		Recycler View		Wiodel Class		
	View		Recycler view				
5	Design Material		Design and		Expandabl		Demonstration
	Navigation Drawer		set Item		e List Items.		of apps
	Design like Gmail						
	Navigation Drawer						
	GPS and Google		Location		Android Push		Introduction
6	Map Integration		Example		Notification		to Fire Base
	Social Media		Social Media Sign-		Android Web view		Android Web view
7	Sign-In and Login		In and Login (Face		and Web Page Display		and Web Page
	(Face Book/		Book/ Google				Display
	Google Integration		Integration and			J	
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	Payment		Payment Gateway		Payment Getaway		Payment Getaway
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	Integration		(Example of PayPal		of PayPal and Other		PayPal and Other
	(Example of PayPal		and Other		Payment Gateway)		Payment Gateway)
	and Other		Payment Gateway)				
	Payment Gateway)						



9	Real-time App Development and Practical Session (Ecommerce App Demo, Shopping App Demo)	Real-time App Development and Practical Session (Ecommerce App Demo, Shopping App Demo)	Real-time App Development a Practical Sessio (Ecommerce App Demo, Shopping Demo)	Development and Practical Session Op (Ecommerce App
10	Introduction to Play Store and App Publishing (Create Account in Play Store and Make App Build)	Introduction to Play Store and App Publishing (Create Account in Play Store and Make App Build)	Questioner & do clear session	

Prerequisites for attendees:

• Working knowledge of C, Core Java knowledge.

System Requirements:

 Win 7, Win 8 or Win 10 (32bit / 64bit) operating system with minimum 1024 * 768 monitor resolution