



### COVERAGE

- Introduction to Android
- Android UI (User Interface)
- Intent
- Data Storage
- Service
- Broadcast Receiver
- Content Provider
- Location Service
- Google Map
- Accessing Web Application
- Firebase
- Adapter
- Fragment
- Material Design
- Hybrid Mobile App (Ionic)
- Project

### SYLLABUS IN DETAILS

#### 1. Introduction to Android

- What is Android?
- Benefits of Android App Development
- Android Architecture
- Android Components
- Android Studio Installation
- Anatomy of Android Application
- Building the Hello World App
- Building Layouts Using Java and XML Code
- Activity Life Cycle

#### 2. Android UI (User Interface)

- TextView, EditText, Button
- Checkbox, RadioButton
- RatingBar, Web View
- Image View , Video View
- List View, Grid View, Spinner
- Auto Complete TextView
- Multi Auto Complete TextView
- Toast, Dialog, Menu
- Date Picker and Time Picker
- View Flipper
- Linear Layout, Relative Layout, Table Layout, Frame Layout, Absolute Layout

#### 3. Intent

- Introduction to Intent
- Types of Intent
  - Explicit Intent
  - Implicit Intent
- Data transfer between activities
- Returning Data From Called Activity to Calling Activity
- Camera Photo Capture
- Capture Video using Intent
- Splash Screen

#### 4. Data Storage

- Shared Preference
- File
  - Internal Storage
  - External Storage
- SQLite Database
  - Introduction to SQLite Database
  - Introduction to SQL
  - SQL Sublanguages (DDL, DML, DRL, TCL and DCL)
  - Create Database
  - Create Table
  - Insert, Read, Delete and Update Operation
  - Add and Retrieve Image

#### 5. Service

- Introduction to Service
- Types of Service
  - Started Service
  - Bounded Service
- Different Ways to Create Started Service
- Service Life Cycle
- Working with Bound Service

#### 6. Broadcast Receiver

- Introduction to Broadcast Receiver
- Different Ways to Register Broadcast Receiver
  - Programmatic Approach
  - Declarative Approach
- Broadcast Receiver for responding outgoing call
- Broadcast Receiver for responding incoming SMS
- Incoming Outgoing Call Log With Call Duration

#### 7. Content Provider

- Introduction to Content Provider
- Content Provider Work Flow
- Accessing Contact App using Content Provider
- Accessing SMS App using Content Provider

## 8. Location Service

- Introduction to Location Based Services
- Difference Between GPS and Network Provider
- Fetch Users Current Location
- Reverse Geocoding using Geocoder
- Location based apps for finding people

## 9. Google Map

- Introduction to Google Maps
- Getting the Google Map key
- Map View
- Map Fragment
- Markers
- Search Location

## 10. Web Application Integration

- Introduction to PHP and MySQL
- AsyncTask
- HttpURLConnection
- Insert, Read, Delete and Update Operation
- Login and Registration Module
- Search Suggestion

## 11. Firebase

- Introduction to Firebase
- Features of Firebase
- Configure firebase
- Login and Registration Authentication

## 12. Adapter in Android

- Base Adapter
- Simple Adapter
- Custom Simple Adapter
- Array Adapter
- Custom Array Adapter

## 13. Fragment

- Fragment Basics
- Fragment Transactions
- Fragments lifecycle
- Fragments and the Action Bar

## 14. Material Design

- Understanding Material Design
- RecyclerView
- CardView
- Implementing the Navigation Drawer
- Tab Layout
- SwipeRefreshLayout
- ViewPager
- Using Animation

## 15. Miscellaneous App

- Text to Speech Conversion
- Speech to Text Conversion
- Send SMS using SMS Manager
- Play Music
- Auto Messaging App
- Call Recorder

## 16. Hybrid Mobile App ( Ionic )

- Native App vs. Web App vs. Hybrid App
- Introduction to Ionic
- Ionic Architecture
- Install Ionic
- Develop and Execute First App in Ionic
- Button
- Radio Button
- Checkbox
- List
- Navigation
- Tab
- Form
- Grid
- Camera
- Facebook Integration
- Geo Location
- Media
- Splash Screen

## 17. Project

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### **CONTACT US**

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