Android App Developer Course

Model 1: Java Basics

- Introduction
- Java programming language
- Java Virtual Machine
- Setting up your machine for Java programming
- Hello World in Java
- Using a text Editor & IDE
- Variables
- Naming
- Primitive Data Types
- Java Operators
- If/Else Statement
- Switch Statement
- While and do-while Loop
- For Loop
- Branching Statements
- Arrays
- Command line Argument

Model 2: OOP in Java

- Object-Oriented Programming Concepts
- Classes and Objects
- Getters and setters
- Access Modifiers
- Constructors
- Inheritance
- Method overriding and overloading
- Abstraction
- Encapsulation
- Interfaces
- Polymorphism
- Package

Model 3: Java Advanced

- Exception handling
- Data Structures
- Java Collections
- Implementations
- Enumerated types
- Serialization
- Deserializing

Android App Developer Course

Lesson 1: Introduction to Android Development

- Installing Android SDK and Android studio
- Android Architecture
- Key Features of Android
- Creating Android Project
- Simple App Demo to take input and say "hello + name"

Lesson 2: Android Activity and Intents

- Activity Lifecycles
- Intents, Passing data, Launching activities
- Supporting different devices
- Adding Action Bar
- Saving data

Lesson 3: Layouts and Controls

- Android Layouts
- Menus
- Input controls
- Settings
- Dialogs
- Toasts
- Drag and Drop

Lesson 4: List Views and SQLite

- List Views
- Loader
- Methods to manage SQLite database

Android App Developer Course

Lesson 5: Services

- Bound services
- Creating a bound service
- Managing a lifecycle of bound service
- Communicating with remote service

Lesson 6: Content Providers

- Content provider basics
- Creating content providers
- Calendar provider
- Contact provider

Lesson 7: UI and Fragments

- Fragments
- Dynamic UI with Fragments
- Loaders
- Tasks and back stack

Lesson 8: Location and Sensors

- Getting a current location
- Using maps with location
- Location strategies
- Sensors overview
- Motion sensors
- Position sensors
- Environment sensors

Android App Developer Course

Lesson 9: Multimedia Audio and video & camera

- Media playback
- Media router
- Media route provider
- Camera

Lesson 10: Introduction to Google Play

- Norms upload application
- Checklist

Apps

- ✓ Stopwatch
- ✓ Simple Calculator App