

Android Course Contents

Introduction

- Android – What it is?
- History of Android
- Importance of Java language for Android Apps
- Other mobile OS-es
- Android Versions & different development tools

Java Fundamentals

- OOPS basics
- Classes & Objects
- Components of a Class
- Structure of a Class & Java File
- Inheritance
- Interfaces
- Abstract Class
- Polymorphism
- Overloading
- Overriding

Android Architecture

Significance of Android Project Structure

- Source Folder
- Generated Folder
- Assets folder
- Resources folder
- Android Manifest XML

Android Application Components

- Activities & Fragments
- Activity Life Cycle

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- Activity – How to create your activity

Android Layouts

- Layout XML files
- Absolute Layout
- Relative Layout
- Linear Layout
- Frame Layout
- Tab Layout
- Table Layout
- List Layout (List View)

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Menus & Messages

- Adding option menus
- Adding popup menus
- Showing dialogs
- Raising toasts

Intent & Intent Filters

- Intents – How and When to use them
- Intent Objects – Action, Data & Category
- Intent Filters – Matching Rules / Tests
- Explicit Intent & Implicit Intent

Services

- Lifecycle of a Service
- When to use Services
- Main Application Threads & Worker Threads
- Intent Service

Broadcast Receivers

- Broadcast Receivers
- Listening for specified broadcasts
- System broadcasts
- Custom & User defined broadcasts
- Sticky Broadcasts
- Pending Intents

SQLite :

- Introducing SQLite
- SQLiteOpenHelper and creating a database
- Opening and closing a database
- Working with cursors
- Inserts, updates, and deletes

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- When to use Services
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External Database Communication

- Introduction to JSON file formats
- Using Web Services to connect to remote DB
- Significance of *AsyncTask* class
- Use JSON for data communication to Web Services
- Fetching data from JSON & loading into Activities