

## **Android Syllabus**

### **Introduction**

1. Android – What it is?
2. History of Android
3. Importance of Java language for Android Apps
4. Other mobile OS-es
5. Android Versions & different development tools

### **Java Fundamentals**

1. OOPS basics
2. Classes & Objects
3. Components of a Class
4. Structure of a Class & Java File
5. Inheritance
6. Interfaces
7. Abstract Class
8. Polymorphism
9. Overloading
10. Overriding

### **Significance of Android Project Structure**

1. Source Folder
2. Generated Folder
3. Assets folder
4. Resources folder
5. Android Manifest XML

### **Android Application Components**

1. Activities & Fragments
2. Activity Life Cycle
3. Activity – How to create your activity

### **Android Layouts**

1. Layout XML files
2. Absolute Layout
3. Relative Layout
4. Linear Layout
5. Frame Layout

6. Tab Layout
7. Table Layout
8. List Layout (List View)

## **Material design**

### **Android Views & Widgets**

1. Button View
2. EditText View
3. TextView View
4. Image View
5. Spinner

### **Menus & Messages**

1. Adding option menus
2. Adding popup menus
3. Showing dialogs
4. Raising toasts

### **Intent & Intent Filters**

1. Intents – How and When to use them
2. Intent Objects – Action, Data & Category
3. Intent Filters – Matching Rules / Tests
4. Explicit Intent & Implicit Intent

### **Services**

1. Lifecycle of a Service
2. When to use Services
3. Main Application Threads & Worker Threads
4. Intent Service

### **Broadcast Receivers**

1. Broadcast Receivers
2. Listening for specified broadcasts
3. System broadcasts
4. Custom & User defined broadcasts
5. Sticky Broadcasts
6. Pending Intents

### **SQLite**

1. Introducing SQLite
2. SQLiteOpenHelper and creating a database
3. Opening and closing a database
4. Working with cursors
5. Inserts, updates, and deletes

### **External Database Communication**

1. Introduction to JSON file formats

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2. Using Web Services to connect to remote DB
3. Significance of AsyncTask class
4. Use JSON for data communication to Web Services
5. Fetching data from JSON & loading into Activities

Thus, if you are looking for Android training classes, just contact us at [info@shimpyinfotech.com](mailto:info@shimpyinfotech.com) to experience the best PHP training modules.

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