

BASIC JAVA & ANDROID SYLLABUS

Course Content

Android is evolving very fast and new releases are coming like a flash. Hence at Pristine InfoSolutions, we continuously review the new releases and market demands and revise our android course content and training materials accordingly. We have a defined curriculum that starts with fundamentals of java programming and drives into android application development from basics.

Main Topics

1. INTRODUCTION TO JAVA
2. OOP WITH JAVA CLASSES AND OBJECTS
3. INHERITANCE
4. EXCEPTION HANDLING
5. INTRODUCTION TO ANDROID
6. APPLICATION STRUCTURE FILES
7. BASIC UI DESIGN
8. PREFERENCES
9. FILE HANDLING
10. DIALOGS
11. MENU & TYPES
12. ADAPTERS
13. SQLITE DATABASE
14. WEBVIEW
15. MEDIA

TARGET AUDIENCE

CAAD is targeted towards those students and professionals who are looking to build career in android apps development.

TRAINING DURATION

It will be of 75 hours training sessions where trainer will be physically present in class to take the sessions.

INTRODUCTION TO JAVA

- ✓ *What is java?*
- ✓ *Features*
- ✓ *Environment setup*
- ✓ *Variables and data types*
- ✓ *Arrays*
- ✓ *Operators*
- ✓ *Condition statement*
- ✓ *loop statement*

OOP WITH JAVA CLASSES AND OBJECTS

- ✓ *Fields and Methods*
- ✓ *Constructors*
- ✓ *Overloading methods*
- ✓ *Nested classes*

INHERITANCE

- ✓ *Method Overloading*
- ✓ *Polymorphism*
- ✓ *Making methods and classes final*
- ✓ *Abstract classes and methods*
- ✓ *Interfaces*

EXCEPTION HANDLING

- ✓ *Type of errors*
- ✓ *Try-Throw-Catch-Finally Constructs*

INTRODUCTION TO ANDROID

- ✓ *What is android?*
- ✓ *History, Features, Versions*
- ✓ *OS Architecture Preview*
- ✓ *Compilation & Execution Procedure*
- ✓ *Tools Needed to start application development(Driver Setup, Emulator, Development Editor)*
- ✓ *Sample Application.(By default created by IDE)*

APPLICATION STRUCTURE FILES

- ✓ *Packages*
 - ✓ *Activities, Manifest file , Gradle*
 - ✓ *Resources (Designs, String, Colors ,styles, R.java- file for maintaining ids)*
 - ✓ *Assets ,Raw*
 - ✓ *Drawable resources - Images and shapes*
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BASIC UI DESIGN

- ✓ *Basic Form widgets, Activities, Applying Styles*
- ✓ *Components and its Corresponding events*
- ✓ *Examples: Basic Form Design*

INTENTS

- ✓ *Definition, Usage*
- ✓ *Switching Screens*
- ✓ *Switching Screens along with Data using bundles*
- ✓ *Intent Types.*
- ✓ *Example : Switch Screens, Pass Data between screens*

PREFERENCES

- ✓ *Shared Preferences*
- ✓ *Preferences from xml*
- ✓ *Examples: Registration and Login and maintaining session at app side.*

FILE HANDLING

- ✓ *Create File*
- ✓ *File Writing and Reading*
- ✓ *Example: Create, Write & Save text file.*

DIALOGS

- ✓ *Toast and Dialogs*
- ✓ *Example: Informative Message, Confirmation Dialog*

MENUS AND TYPES

- ✓ *Option menu*
- ✓ *Context menu*
- ✓ *Sub menu*
- ✓ *Examples: Notepad*

ADAPTERS

- ✓ *List view, Grid view*
- ✓ *Basic and custom adapter.*
- ✓ *Example: Listing Contacts*

SQLITE DATABASE

- ✓ *Create Database and tables*
 - ✓ *insert, view, update and delete operations on tables,*
 - ✓ *Example: Storing of information for registration and login screen.*
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WEB VIEW

- ✓ *Loading Local and Live web page.*

ANIMATIONS

- ✓ *Animation Basic*
- ✓ *Moving Images and Other Components.*
- ✓ *Animation Effects using interpolators.*

MEDIA

- ✓ *Playing Audio and Video Files.*
- ✓ *Preview Gallery Image.*
- ✓ *Capture Image with Camera*

COURSE DURATION: 75 Hours
