

BASIC 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 ANDROID*
2. *APPLICATION STRUCTURE FILES*
3. *BASIC UI DESIGN*
4. *PREFERENCES*
5. *FILE HANDLING*
6. *DAILOGS*
7. *MENU & TYPES*
8. *ADAPTERS*
9. *SQLITE DATABASE*
10. *WEBVIEW*
11. *MEDIA*

PRE-REQUISITES

Anyone who wants to learn Android apps development should have practical knowledge of anyone: C, C++ or JAVA.

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 60 hours training sessions where trainer will be physically present in class to take the sessions.

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*

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.*
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FILE HANDLING

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

DAILOGS

- ✓ 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.

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: 60 Hours
