

ADVANCED 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. TELEPHONY SERVICES
2. LOCATIONBASED SERVICES
3. SENSORS
4. CONNECTIVITY
5. ASYNCTASK
6. BROADCAST RECEIVER
7. SERVICES
8. WEB SERVICES
9. FRAGMENTS
10. GOOGLE MAPS (PRACTICAL APPROACH)
11. PUSH NOTIFICATION (PRACTICAL APPROACH)
12. SOCIAL MEDIA (PRACTICAL APPROACH)

PRE-REQUISITES

Anyone who wants to learn Advanced Android App Development should have Basic Android Knowledge.

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

TELEPHONY SERVICES

- ✓ *Cell phone Properties*
- ✓ *Example: Show Phone Details, Make Calls and Send Sms*

LOCATION BASED SERVICES

- ✓ *Information of Location via Network and GPS Provider*
- ✓ *Finding current location and listening for changes in location*
- ✓ *Geocoder*
- ✓ *Examples: Tracking Current Phone*

SENSORS

- ✓ *Sensor Basics, Types, Sensors working*
- ✓ *Example : Orientation, Accelerometer and Proximity Sensor*

CONNECTIVITY

- ✓ *Test Internet Connection*
- ✓ *Detecting Connection Type and Properties*
- ✓ *Example : Monitor Network Status before performing Web operations*

ASYNCTASK

- ✓ *Information, Usage, benefits.*
- ✓ *Example: Performing Networking Task like downloading, uploading small file to server.*
- ✓ *Calling services on web.*

BROADCAST RECEIVER

- ✓ *Introduction, Usage as Listener to system events*
- ✓ *Example: Perform background operation on receiving a call or sms.*

SERVICES

- ✓ *Services Introduction, services types*
- ✓ *Stated and Bind Services*
- ✓ *Example: Communication using services.*

WEB SERVICES

- ✓ *What are web services, types of web services*
- ✓ *Consuming Web services using Http and Soap*
- ✓ *Parsing Web service response using Json and XML formats*
- ✓ *Example: Consuming services and represents its response.*

FRAGMENTS

- ✓ *Introduction To Fragments*
- ✓ *Use of fragments, Design using fragments*
- ✓ *Passing Data between fragments*
- ✓ *Example: Sliding Screens with tabs*

GOOGLE MAPS (PRACTICAL APPROACH)

- ✓ *Pre-requisite for integrating maps, generating keys using Google console.*
- ✓ *Show current location on map.*
- ✓ *Draw route on map.*

PUSH NOTIFICATION (PRACTICAL APPROACH)

- ✓ *Send Message to device using GCM.*

SOCIAL MEDIA (PRACTICAL APPROACH)

- ✓ *Integrating Social Media with App*
- ✓ *Pre-requisite like generating tokens*
- ✓ *Facebook, Google Plus, Twitter Login*

COURSE DURATION: 80 Hours