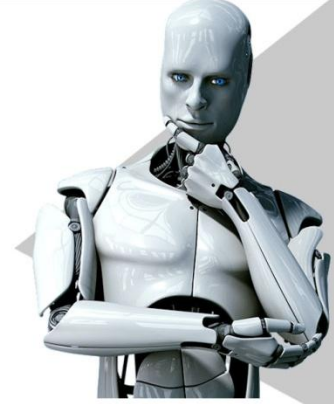


# STUCORNER

Development | Training | Consultancy

An ISO 9001:2008 Company



## Android Training(6 weeks)

STUCORNER is one of the best Mobile App develop training center. We provide all things at real time . It is a software package that has operating system, middleware and key applications.

For Java based Android applications Software Development Kit (SDK) provides tools and APIs. Android platform runs multiple applications at one time.

For e.g. Android user can receive notification, listen music and use GPS. Android applications have a vast market. Its applications are used by many prominent mobile phone manufacturing companies.

It provides easier application maintenance and market exposure to developer. Android is a versatile application which is flexible with hardware and carrier. Besides this, Android APIs helps a developer in developing standard apps. One who has work experience or good hands on Java can easily learn Android development. Usually the candidates with computer science and related engineering background and MCA & MSc can learn this course but anyone with good command over java can take Android training. STUCORNER's Android course provides you a well-designed training program according to IT job market demand. Enhanced and frequent exposure to labs and experienced faculties will give a sharp edge in Android development. Live project development, regular revision and tips for coding are a part of course.

### Introduction to Android

- Introduction to Android
- Brief history of Android
- What is Android?
- Why is Android important?
- What benefits does Android have?
- What is OHA?
- Why to choose Android?
- Software architecture of Android
- Advantages of Android
- Android features
- Android market
- Comparing Android with other platform
- Terms and acronyms



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## Installation and Configuration of Android

- Details about the software requirement
- Download and installation process of eclipse
- Download and installation process of JDK
- Installation of ADT plugin for eclipse
- Download and installation process of Android SDK
- Configuration of ADT plug-in for eclipse
- How to select Android version?
- Step to create new project?
- ☐ Running your application Creation of new AVD

## Getting Started

- How to select Android version?
- Step to create new project
- Running Your Application
- Creation of New AVD
- Creating run configuration
- Creating your first Android activity
- List of basic sample programs

## Introductions to Application Components Activities

- Services
- Broadcast receivers
- Content providers
- Intents
- Notifications
- Activating and shutting down components
- Brief idea about manifest file
- Brief idea about activities and Task

## Android Component Life Cycle

- Activity Life Cycle with sample program
- Service Life Cycle with sample program

## Android Views

- Grid View In detail With Example
- Map View In detail with Example
- Cont. Sub Topical Views
- Web View In detail with Example
- Spinner In detail with Example
- Gallery In detail with Example
- Google Map View In detail with Example
- Introduction to creating activity user with views
- Different ways of creating views Using xml

## Introduction to Menus

- How to create menus?
- Types of Android Application Menus
- Option Menu
- Expanded - In detail with Example
- Context Menu In detail with example
- Sub Menu-In detail with example

## Creating Dialogs

- Introduction to dialogs
- Showing and dismissing of dialog boxes
- Alert dialog In detail with example
- Progress dialog In detail with example
- Threading and handler

## Notifications

- Notifying Users
- Status bar Notification
- Toast Notification
- Dialog Notification
- Supported video formats



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## Intents, Broadcast Receivers, Adapters

### And Internet

- Different types of intent?
- Launching sub-activities
- What is intent filter
- Intent objects---In detail with example
- Using intents to take pictures
- Handling sub activity results

### Data Storage

- Android techniques for data storage
- Creating and saving shared preferences
- Retrieving shared preferences
- Storing in files
- Loading from files.
- Storing in databases.

### Working in Background

- Introducing services
- Creating and controlling services
- Registering a service in the manifest
- Starting, controlling, and interacting with a service

### Using the Camera, Taking Pictures and the Media API

- Controlling the camera and taking pictures
- Playing audio and video
- Introducing the media player
- Preparing audio for playback
- Packaging audio as an application resource
- Initializing audio content for playback
- Preparing for video playback
- Playing video using the video view
- Setting up a surface for video playback
- Initializing video content for playback

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## Notifications

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- Supported video formats

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- Setting up a surface for video playback

Initializing video content for playback

## Maps, GEO coding and Location Based Services

- Using Location Based Services
- Working with the location manager
- Configuring the Emulator to Test Location Based Services

## Using Bluetooth and Managing and Monitoring Wi-Fi

- Accessing the Local Bluetooth Device
- Adapter
- Managing Bluetooth Properties and State
- Managing Device Discoverability
- Discovering Remote Devices
- Monitoring Active Connection Details
- Scanning for Hotspots



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## Web Services with Architecture

- What are WebServices
- Web service Architecture
- REST & SOAP
- Parsing Techniques JSON, XML
- Consuming WebServices
- CRUD Operations over Server

## Android Telephony

- Launching the Dialler to Initiate Phone
- Calls Replacing the Native dialler
- Accessing phone and Network Properties & Status
- Reading Phone Device Details
- Reading Data Connection and Transfer State
- Reading Network Details

## Sensor Device

- Using sensors and the sensor manager
- Introducing Sensors
- Supported Android Sensors
- Finding Sensors
- Using Sensors
- Interpreting the sensor values
- Using the compass , accelerometer and orientation sensors

## Project With real time



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