









Programming & development Course Curriculum



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ANDROID APPLICATION DEVELOPMENT

CHNOLOGIES

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The course contents are as follows:

Course Details

Day-1:(Session-1, 3hrs before lunch break)

- What Is Android?
 - o Brief Introduction of Android Device Programming for Android
 - o Open Handset Alliance and Features
- Installing the Android SDK
 - o Brief Introduction of Android Device Programming for Android
 - Installing the Android
 - o Configuring the Android Plug-in for Eclipse
- Android Stack(Architecture)
 - o Linux Kernel
 - Native Libraries
 - o Dalvik Virtual Machine App Framework

Hello World Application

- Creating the first Android Application
- o Running the application on Android emulator
- Hello World App on Android Emulator

Day-1:(Session-2, 5hrs after lunch break)

- Main Building Blocks
 - o Default Packages
 - Activities
 - o Activity Life Cycle



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- Intents
- o Content Providers
- o Broadcast Receiver

Intent Filters in Android

- o Role of filters
- o Intent matching Rules
- o Filters in your Manifest

Working on and Preparing Android User Interface

- XML Layout Files
- Views and Layouts
- o Setting Content View
- Basic UI Components(Buttons, EditText, ListView, AutoCompleteTextView, Spinner)

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o Performing and Handling user events

Tea Break

Android Apps Building

- o Declaring Variables
- Using Text View for values to be printed
- o Using Conditions

• Designing an Application

- o Implementation of Widgets
- o Using Radio Buttons
- Use of different types of Android Themes H N O L O G E S

Day-2:(Session-1, 4hrs before lunch break)

Android Layout Understanding&Menu

- o Linear Layout
- o Relative Layout Building PopUp Menu

Android: Toast Creation

- Creating Standard Toast
- o Setting the position of a Toast on the Screen

Tea Break

Sensors in Android

- o How sensors work
- Types of Sensors
- o Listening to sensor reading
- o Working with Acceleration Sensor
- o Reading X,Y,Z Coordinates

• Work With Your Android Phone

o Get your Apps on Phone.



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- Get Connected with Phones
- o App Transfer Among Hand Sets

Day-2:(Session-2, 4hrs after lunch break)

- Broadcast Receiver
 - o Life Cycle of Broadcast Receiver
 - o Some System Broadcast
 - o Pending Intent
 - o Creating messaging application
- Android Graphics and Multimedia
 - o Playing Audio
 - o Playing video
- Media Player Application using Content Provider
 - o Creating list view to display song list
 - o Transfer songs on AVD
 - Play songs on AVD or on your Device

Android Advanced Topics (Only Overview)

- 1) Android Asyc Task
- 2) Android Webservices
- 3) Android Online Apps
- 4) Targetting mutiple Resolutions

Virtual Reality with Android Native - Android Studio

ECHNOLOGIE

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- Develop professional VR apps using Android Studio
- Run Android Studio applications in VR on a smart phone
- Create a 3D scene
- Select items in the scene
- Move around the 3D world
- Create easy to interact with menus to control application parameters
- Input alphanumeric information (text, numbers)
- Play back regular video
- Panoramic pictures and video