

Android Application Development Course

About

Android Application Development Course is hands-on that provides an indepth exploration of entire Android Apps life cycle. The objective of these courses is to make participant aware about the entire development cycle of the Android apps.

The course is a combination of lectures and hands-on exercises that provide real-world experience.

Duration

- 8 Days
- 4 hours each day
- 32 hours

Who Should Attend

- Programmers who are looking to enter the Mobile Apps Development
- Beginners, Junior Software Developers, Senior Software Developers, Team Leads and Managers
- Hobbian who wants to bring their ideas into potential application
- Anyone who wants to make sophisticated mobile applications

What You'll Learn

- Understanding of the Java concepts w.r.t Android
- Create apps with sophisticate UI designs.
- Create apps with MVC Android environment
- Creates apps which interacts with various UI components
- Deploy the App on the Android devices and over the Play Store
- Understand how to make App compatible with multi Android with various resolutions.

- Create an App with Multi Controller environment
- Create apps including Web services
- Create apps including the persistent storage
- Create client-server mobile app
- Code Apps using AsyncTask
- Understand the architecture for Web services oriented apps and persistent storage oriented apps.
- Create apps with Social Media integration.
- Create Apps with Layouts

Hardware & Software Requirement

- Mac machine running latest Mac OS (Maverick) or Windows running Windows 8 and above
- Android Studio updated version. Latest JDK. Latest Android SDK
- Machine should have 4 GB of RAM and running at least i3 Intel Processor
- All software should be integrated in the system.
- Android device for testing

Prerequisites

- Object Oriented Programming Language JAVA

Course Outline

Android Basics and Android Studio

- Object Programming Basics
- Android Studio
 - Understanding of Android Studio IDE

- Understanding of project folder structures
- Significance of various folders in the res folder
- What are XMLs in each folder and their respective Significance
- Walk through simple example of Android Project

Activity

- What is Activity
- Significance of Activity
- Life Cycle Of Activity

Android UI Concepts and Layouts

- What is Layout
- Types Of Layouts
- Significance of using the Layout
- Talk about the Linear Layout, Relative Layout and Frame Layout
- Talk about the significance of each layout and use cases of each in details
- Start with Project demonstrating the Linear Layout
 - Discuss about the relationship between the views in the Linear Layout
 - Nesting of Linear Layout
 - Understanding the concept of weights in Linear Layout
 - Discuss about the dp and sp in the Android Programming
 - Understanding the significance of id in XML
 - Interacting with UI components
- Managing the Device Orientation o Understanding the Activity Life Cycle o Understanding the handling the Activity State o Mechanism to preserve the state of the Activity o Understanding of qualifiers in XML resource folder
- Talk about Relative Layout
 - Difference between the Linear Layout and Relative Layout
 - Making screen with Relative Layout

Android Application Deployment and Distribution

- Start with deployment of App on the Android Device
- Start with distribution of the App
 - Understanding the creation of signed apk
 - Understanding the distribution process to the play store

Intends

- Talk about Intends
- What is Intend
- Significance of Intends
- Type of Intends
 - Implicit Intend
 - Explicit Intend
- Architect of Activity Navigation using Intend
- Passing arguments from one Activity to another using Intend
- Demonstrating simple application
 - Talk about Implicit Intend o How to call web browser from the App
 - o How to share the data from our App to other Apps like Facebook, Twitter etc..

WebView

- Talk about the web view
- understand the importance of the web vie
- Demonstrating simple application

ListView and Adapter

- Talk about the List View
 - Understand about the List View and it's importance

- Configuring List Views using system Cells
- Talk about the Inflater
- Talk about BaseAdapter
 - What is BaseAdapter
 - Importance of Base Adapter in configuring the List View cells

SOAP and REST web services

- o Talk about client server architecture o Talk about the Web services o Start with the SOAP webservice o Talk about how to integrate MVC architecture in client-server environment o Talk about XML o Talk about where XML is used.
- o The working of client-server architecture o XML: Solution for client server architecture o Start of on the implementation of XML parsers o Talk about AsyncTask o How AsyncTask helps to perform in background Thread o Talk about the parsing process o Talk about pure model components o Talk about the Interface required & creating the interface o Walk through the flow of the code implemented o Finally giving full MVC flow of client server environment.
- o Difference between DOM and SAX parser
- Start with Custom List View
 - Creating the Model Class to hold the data
 - Creating the cell xml to hold the cell layout
 - Configuring the BaseAdapter to combine custom model to custom Cell layout
- Talk about the ViewHolder Class o Importance of ViewHolder o Optimization using the ViewHolder class
- Merging the data from AsyncTask to the Adapter
- Talk about the Alert Dialog
- Integrating the REST web services in the client-server architecture • Talk about the JSON

Persistence using SQLite

- Talk about creation of persistent storage o Talk about SQLite o Talk about writing SQLite queries in Android o Walk through the creation of a simple database o Talk about the DataBase Adapter o Talk about the Database Helper
- Start of with the implementation of the code

Pricing For Individual (Per participant)

Mr. Priyank Ranka 50000 INR + 15% Service Tax
Other Trainer 30000 INR + 15% Service Tax

Pricing For Corporate Per Day (Upto 12 participant)

Mr. Priyank Ranka 30000 INR + 15% Service Tax
Other Trainer 20000 INR + 15% Service Tax

The charges above are for trainer's fees for trainings conducted at Nimap Infotech Training Center

Terms and Conditions

- Payment: 100% advance
- Participant should follow Prerequisites and Hardware and Software requirements
- All payment needs to be made in favor of "Nimap Infotech LLP"
- **Wire Transfer Details**

Bank Name : ICICI bank
Branch : Mazagaon Branch
Account Name : Nimap Infotech LLP
A/c. no : [107105000697](#)
IFSC Code : icic0001071
MICR code : 400229073

- Fees is non refundable. If participant gets the replacement than fees will be transferable

Thank You!!

Success of Nimap Infotech as a company is measured by the growth and happiness of its customers. Nimap Infotech has a vested interest in supporting you for years to come.

Please send us a PO and provided above and email to Priyank@nimapinfotech.com if you choose to accept this offer.