



Course: Android Mobile Application Development

Duration: 5 Days

Training Syllabus

1. Introduction to Android.

2. Android Overview and History.

3. Android Architecture

- Linux kernel
- Android Runtime
- Dalvik Virtual Machine
- Libraries
- Application Framework
- Applications

4. Core java

- Introduction to java
- Data types, operators and control statements
- Classes & Objects
- Methods
- Constructors
- Strings and String Buffer classes
- OOPS
- Collection Framework
- Exception Handling
- Multithreading

5. Android SDK Overview

6. Android Software Installations

- For windows7
- For Linux
- For Mac OS

7. Building Blocks of Android

8. Creating First Project

9. Folder Structure of Android (Exploring Project Structure)

10. Layouts

- Linear Layout
- Absolute Layout
- Frame Layout
- Table Layout
- Relative Layout
- Inner layouts

11. UserInterface

- Creating Button
- Creating TextView
- Creating Edit Text
- Creating Image Button
- Creating Image View
- Creating Toggle Button
- Etc.

12. ScrollView

- **Vertical Scroll view**
- **Horizontal Scroll view**

13. Creating Multiple Screens (Activities)

14. Intents

- Implicit Intent
- Explicit Intent
- Intent Filter
- Pending Intent
- Sticky Intent

15. Activity LifeCycle

- On Create ()
- On Start ()
- OnResume()
- OnPause()
- OnStop()
- OnDestroy()
- OnRestart()
- OnSaveInstanceState()

16. Shared Preferences

- Saving Data into SharedPreferences
- Retrieving Data from SharedPreferences

17. DDMS

18. StartActivityForResult

19. Menus

- Options Menu
- Context Menu

20. Dialogs

- AlertDialog
- CustomDialog
- ProgressDialog
- Date Picker Dialog
- Time Picker Dialog

21. ListViews

- ArrayAdapter
- BaseAdapter
- Simple List View
- CustomListview

22. Gallery View

23. Grid View

24. Spinner View

25. Autocomplete TextView

26. Layout Land

27. WebView

28. Using HTML pages in Android.

29. ActionBar Tab

30. MultiMedia

- Audio
- Video
- Media Recording

31. ViewFlipper

32. Checking Internet Connection

ADVANCED ANDROID CONCEPTS

33. Saving Files

34. Accessing SD Card

35. SQLite Database

- Simple Example on SQLite Database
- Creating, Opening and Closing Database
- Inserting records into Database
- Deleting Records into Database
- Updating Records into Database

36. Content Providers

37. Notifications

- Toast Notifications
- Status bar Notifications

38. Text To Speech

39. Speech To Text

40. Sensors

41. Bluetooth

42. WiFi

43. Services

44. Broadcast Receivers

45. Maps & Location Services

- Overview
- Getting the Google Maps Android API v2
- The Google Maps API Key
- Displaying certificate information
- Creating an API Project
- Obtaining an API Key
- Adding the API Key to your application
- Specify settings in the Application Manifest
- Specifying permissions
- Requiring OpenGL ES version 2
- Add a Map
- Accessing Current Location

46. Where Am I? Example

47. Telephony

48. SMS

49. Camera

50. Handlers

51. AsyncTask

52. View Pager

53. ActionBar

54. XML Parsing

55. JSON parsing

56. Fragments

- **Static Fragment**
- **Dynamic Fragment**
- **Dialog Fragment**
- **List Fragment**
- **Preferences Fragment**

57. Deploying Applications into Android Mobile Devices.

58. Publishing Apps into Google Play Store.

59. Publishing adds in Android Applications.

- **Ad mob**
- **Air push**

60. Start App