

Industry Trainers

"Read what you need"

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ANDROID COURSE CONTENTS

Duration: 30 Working Days

1) Introduction to mobile environment

Mobile applications vs other applications

Prerequisite: Knowledge of Core Java Programming

- Types of mobile applications
- Introduction to mobile technologies

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- 2) Introduction to android
- 2 Android History
- Android versions and their brief differences
- Features of android
- Puture of android
- Types of android softwares and their differences

Focus Training Services

- 3) Android software setup
- Android sdk introduction
- Steps for installing android sdk
- Configuring android sdk manager
- About Eclipse ide introduction
- Android development tools introduction
- Understanding android virtual device and their configuration setup
- 4) Steps to develop a first android application
- Understanding application structure



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- Starting and stopping emulator services
- Understanding types of virtual machines and their differences
- Understanding differences between dvm and jvm
- Understanding differences between garbage collector and dalvik garbage collector
- 5) Understanding apk file and dex file and their differences
- 6) Types of android applications and their differences
- 7) About layout managers
- Need of layout managers
- Types of layout managers in detailed with examples
- 8) Understanding android widgets

?

TextView,Button,ImageButton,EditText,CheckBox,ToggleButton,RadioButton,RadioGroup,ProgressBar,AutoCompleteTextView

- Discussing above views indetailed with examples
- Understanding picker views i.e TimePicker and DatePicker

Services

- Understanding list views types normal list view and spinner list view
- 9) About activity communication
- Need of activity communication
- Types of activity communications with examples
- 10) Calling Built in activities in android mobile
- 11) Steps to deploy android app into real android mobile device
- 12) Understanding notification service with a example
- 13) Understanding screen orientation and controlling with a example



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14)	About Action Bar
?	Adding action items
?	Customizing action items and icon
15)	Steps to create user interface programmatically and its requirement
16)	About Fragments
?	Need of fragments
?	Fragments vs activity
?	Fragment life cycle
?	Types of fragments and their differences
?	Built in fragments types and their differences
17)	Understanding menus
?	Types of menus and their differences with examples
?	Need of menus
18)	Understanding data persistence
?	Types of databases and their differences Steps to configure each database with a example
?	External storage and internal storage examples
19)	Content Providers
?	Types of content providers and their differences
?	Steps to use built in content providers and their needs
?	Creating and using our content provider
20)	About Dialog boxes
?	Types of dialog boxes and their needs
?	Examples for each dialog box in detail
21)	Understanding broadcasting
?	Using intents to broad cast events



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?	Listening broadcast with broadcast recievers
?	Understanding ordered intents broadcasting
?	Understanding sticky intents broadcasting
?	Understanding pending intents
22)	Understanding services
?	Services vs activities
?	Steps to create and controlling services
?	Integrating service to activity
?	Creating foreground services
23)	Understanding background threads
?	Understanding asynchronous thread and their differences
?	Creating a new task with example
24)	Working with alarm service
25)	Understanding speech recognition
?	Speech recognition for input Speech recognition for search Speech recognition for search
26)	About animations CT = 888011055444
?	Tweetend view animations and property animations and their differences
?	Understanding animation listeners
?	Understanding canvas drawing
?	Introducing surface view and when to use it
?	Creating 3d views with a surface view
27)	Understanding touch screen and working with a touch events with a examples
28) detail r	Understanding web services and their needs and how to consume webservices using json in ealtime examples