

ANDROID SYLLABUS



Android

Introduction to Android

- What is Android?
- Setting up development environment
- Dalvik Virtual Machine & .apk file extension
- Fundamentals:
- Basic Building blocks - Activities, Services, Broadcast Receivers & Content providers
- b. UI Components - Views & notifications
- c. Components for communication - Intents & Intent Filters
- Android API levels (versions & version names)

Application Structure (in detail)

- AndroidManifest.xml
- uses-permission & uses-sdk
- Resources & R.java
- Assets

- Layouts & Drawable Resources
- Activities and Activity lifecycle
- First sample Application
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Emulator-Android Virtual Device

- Launching emulator
- Editing emulator settings
- Emulator shortcuts
- Logcat usage
- Introduction to DDMS
- Second App:- (switching between activities)
- Develop an app for demonstrating the communication between Intents

Basic UI design

- Form widgets
- Text Fields

- Layouts
- [dip, dp, sip, sp] versus px
- Examples

Preferences

- 1. SharedPreferences
- 2. Preferences from xml
- 3. Examples

Menu

- Option menu
- Context menu
- Sub menu
- menu from xml
- menu via code
- Examples

Intents (in detail)

- Explicit Intents
- Implicit intents
- Examples
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UI design

- Time and Date
- Images and media
- Composite
- AlertDialogs & Toast
- Popup

- Examples

Styles & Themes

- styles.xml
- drawable resources for shapes, gradients (selectors)
- style attribute in layout file
- Applying themes via code and manifest file
- Examples

Content Providers

- SQLite Programming
- SQLiteOpenHelper
- SQLiteDatabase
- Cursor
- Reading and updating Contacts
- Reading bookmarks
- Example :
- Develop an App to demonstrate database usage. CRUD operations must be implemented. Final details should be viewed in GridView as well as in ListView.

Linkify

- Web URLs, Email address, text, map address, phone numbers
- MatchFilter & TransformFilter
- Examples
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Adapters and Widgets

- Adapters:-
- ArrayAdapters
- BaseAdapters
- ListView and ListActivity
- Custom listview
- GridView using adapters
- Gallery using adapters
- Examples

Notifications

- Broadcast Receivers
- Services and notifications
- Toast
- Alarms

Custom components

- Custom Tabs
- Custom animated popup panels
- Other components
- Examples

Threads

- Threads running on UI thread (runOnUiThread)
- Worker thread
- Handlers & Runnable
- AsyncTask (in detail)
- Examples

Advanced

- Live Folders
- Using sdcards
- XML Parsing
- JSON Parsing
- Maps, GPS, Location based Services
- Accessing Phone services (Call, SMS, MMS)
- Network connectivity services
- Sensors

We are also providing training on Core & Adv java, Android, Web Designing, Graphics designing, PHP & MySQL training, C & C++ Programming, asp.net & C#.net & Final year project for computer science student.

For more Detail you can contact us

Dange Chowk Office:

CNC WEB WORLD

Sr. No. 51/2, Office No. -1,

Landmark: Opp. Pandit Petrol Pump,
On Hinjewadi Road

Dange Chowk, Pune 411033

Mob: +91 9175371080/81

E-mail: info.cnc@cncwebworld.com

Helpline no.9595119900

Swargate Office:

CNC WEB WORLD

2nd Floor, Office No.202, Modi Plaza,

Landmark: Opp.Laxmi Narayan Theatre

Tel No: 020-41203324

Mob : +91 9156991450/51

E-mail: info@cncwebworld.com

www.cncwebworld.com