Android

» Introduction to Android

- Brief history of Android
- What is Android?
- Why is Android important?
- What is OHA?
- Advantages of Android
- Android features
- Android Market

» Installation and Configuration of Android

- Details about the software requirement
- Download and installation process of Android Studio
- Creation of AVD
- Details of AVD
- Platforms
- Tools
- Version

» Getting Started

- How to Select Android Version
- Step To Create Android Project
- Running Your Application
- Create Switching App
- Run Application in your Android Mobile
- Create a List by the use of Listview

» Introduction To Application Component

- What is Activity
- Activity Life Cycle
- The ManifestFile.xml
- Layout Resources
- Project File and Folder

» Listeners

- Introduction of Listeners
- Working with Their Abstract methods
- OnClickListener
- OnLongClickListener
- OnCheckChangedListener
- OnItemClickListener
- OnItemSelectedListener
- OnKeyFocus
- OnInitListener

» Android Components

- Button
- Toggle Button
- Checkbox
- Spinner
- Progress Bar
- Radio Group
- Rating Bar
- Switch

» Layouts

- Linear Layout
- Relative Layout
- Frame Layout
- Constraint Layout

» Composite

- List View
- Grid View
- Scroll View
- Horizontal Scroll View
- Sliding Drawer
- Web View
- Recycler View
- Card View

» Image And Media

- Image View
- Image Button
- Gallery
- Media Controller
- Video View
- How to Play Audio
- How to Play Video

- Audio Recording
- Video Recording
- How to Click Picture Using Camera
- How to Set Wallpaper
- Time Picker And Date Picker

» Android Menu

- How To Create Menu
- Option Menu
- Context Menu
- Popup Menu

» Creating Dialogs

- Introduction to Dialogs
- Showing and Dismissing of dialog Boxes.
- Alert Dialog
- Progress Dialog
- Threading and Handler

» Intent, BroadcastReceiver, adapter

- Different Type of Intent?
- What is intent-Filter
- What is Pending Intent
- What is a sticky Intent
- Using Intent to take picture

» Working with Background

- Introduction
- Creating Controlling Services
- Unbinded and Binded Services
- Explicit and Implicit Services
- TextToSpeech Service
- SpeechToText Service
- Registering a Service in Manifest
- Starting Controlling And interacting with a service

» Fragment

- Multipane Fragment
- Fragment Life Cycle
- Addition Fragment

» Maps ,Geo Coding and location based service

- Using Location Based Service
- Working with Location Manager
- Working With Location Class
- SharedPrefrences

» Data Storage

- Editor
- Modes In SharedPrefrences
- ContentProvider
- External Storage
- Internal Storage
- Database Structure
- SqliteDatabase
- SqliteOpenHelper
- CRUD operation
- Handling Database

» Animation

- Rolling your own Widgets
- Drawables
- BitMaps
- Paints

» Bluetooth And Wi-Fi

- Introduction of Bluetooth
- How to make Device On, Off and Discoverable.
- Introduction of Wi-Fi
- How To Vibrate Your Device

» Introduction to SMS

- Using SMS in your Application
- Using Intent and the native client
- How to send Message to other Mobile

» Android Telephony

- Launching the dialer to initiate phone
- Accessing phone and network properties and status
- Reading Phone Device Details
- Reading Network Details

» Sensor Device

- Using Sensor and Sensor Manager
- Supporting Android Sensor
- Finding Sensor
- Using Sensor
- Introducing accelerometer
- Detecting accelerometer changes

» WebServices

- What is Web Services
- Web Service Architecture
- Rest and Soap
- Parsing Techniques
- CRUD operation over Server

» Firebase

- Realtime database
- Cloud Storage
- Authentication

PROJECT with Ducat

- After the completion, apps you see in the play store now can be build by your own
- Some Of the App example that can be made after this course -
- Chatting Apps
- Dictionary Apps
- Employee Relationship Management Apps
- Reminder Apps
- Company Management Apps
- College Management Apps
- Student Management Apps
- Sensor Gaming Apps and Many More

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