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Android Application Development

Introduction to Android

- What is Android?
- Open Handset Alliance
- Android Features
- Development Framework for Android
- Dalvik Virtual Machine

Android SDK and Development Environment

- Android SDK tools
- Android development tools
- Android Versions
- Android Architecture
- Android Application Life Cycle

Android Development Kit Installation, Configuring Eclipse and First Project

- IDE and Android Installation
- Developing First Project
- Limitations of Mobile Device

Creating User Interfaces

- Views, ViewGroups
- Layout Managers
- XML configuration of Layouts
- Building user interfaces using Graphical Layout
- Event handling Mechanism

Notifications

- Introduction to Notifications
- Types of Notifications
- Toast Notification
- StatusBar Notification
- Alert Notification

Adapters

- Introduction to Adapters
- List Adapter
- Array Adapter
- Cursor Adapter
- Simple Adapter
- SpinnerAdapter

Advanced User Interface

- Customized User Interfaces
- Drawable Resources
- Resolution and Density Independence

SQLite and Content Providers

- What is SQLite?
- Creating SQLite Databases
- Inserting Data into SQLite
- Retrieving Data from SQLite
- Deleting Data from SQLite
- Updating Data on SQLite
- Content Providers
- Querying using Content Providers

Cursors and Content Values

- Introduction about Cursors
- Inserting data into SQLite using Content Values
- Reading Address Book from Mobile
- Making Calls from Application

Telephony and SMS

- Telephony
- Reading Phone device details
- Reading SIM Details
- Introducing and Sending SMS and MMS
- Reading incoming messages

Location Based Services

- Finding current location – Location Manager
- Introduction to GeoCoding
- Types of GeoCoding
- Forward GeoCoding
- Reverse GeoCoding

Google Map API

- Introduction to Google Maps
- How to use Maps in Application?
- Change views on Map
- Adding and removing layers - Map Overlay
- Getting Views to the Map and Map Positions
- Draw path between two GeoPoints

Resources and Assets

- Android Resource
- Using resources in XML and code
- Localization
- Handling Runtime configuration changes

Menus & Dialog Boxes

- Introduction to Menus
- Types of Menus
- Options Menu
- Context Menu
- Sub Menu
- Dialog Boxes

Animation

- Introduction to Animation
- Property Animation
- View Animation
- Rotating view
- Translating View
- Alpha animation
- Example

Activities,Intents & Intent Filters

- Activities
- Intents
- Pending Intents
- Intent Filters
- Data Interaction among Activites

Services and Receivers

- Service Life cycle
- Permissions
- Implementing Services
- Receiver tag
- Implementing Receivers

Multithreading

- Using Java Mutithreading classes
- Handler
- Post
- AsyncTask

Data Storage and File System

- Shared Preferences
- File System in Android
- Internal Storage
- Externel Storage

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