

Android App Development Course Highlights

Session 1: Startup

1. Introductions
2. Tools/environment setup & troubleshooting
3. Create 1st Android App – Bluetech
4. Introduction to Java
 - 4.1 Creating, compiling, & running a Java Program
 - 4.2 Variables, constants, data types, output and comments
 - 4.3 Operations: math, assignment, comparison, precedence, escape characters
 - 4.4 If, switch, for, while, do-while, break/continue
 - 4.5 Arrays
 - 4.6 Strings
 - 4.7 OO: properties + methods, inheritance, containment, class vs. object, interfaces
5. Revisit First Android App – Bluetech
 - 5.1 Manifest
 - 5.2 Resources
 - 5.3 Views
 - 5.4 Debugging
 - 5.5 DDMS
 - 5.6 Logcat

Session 2: Working with the User Interface

1. Development tools
2. Applications
 - 2.1 App manifest
 - 2.2 Resources
 - 2.3 Application types
3. Activities
 - 3.1 Activity Life Cycle
4. Introduction to UI
 - 4.1 Layouts
 - 4.2 Fragments
 - 4.3 Adapters
 - 4.4 Action bar
 - 4.5 Dialogs
 - 4.6 Notifications
5. UI best practices

Session 3: Data and App interaction

1. Intents and Broadcast Receivers
 - 1.1 Intents
 - 1.2 Pending intents
 - 1.3 Intent resolution
 - 1.4 Native broadcast intents
2. Preferences and saving state
3. Content Providers
4. Background processing
 - 4.1 Services
 - 4.2 IntentService
 - 4.3 AsyncTask
 - 4.4 Alarms

Session 4: Sensors, Deployment and more

1. Sensors
 - 1.1 Finding sensors
 - 1.2 Accelerometers
 - 1.3 Gyroscopes
 - 1.4 Other types
2. Orientation and MovementF
 - 2.1 Pitch, roll and yaw
 - 2.2 Natural device orientation
 - 2.3 Reference frame remapping
3. SMS
 - 3.1 Sending
 - 3.2 Receiving
4. App Distribution
 - 4.1 Signing
 - 4.2 Google Play requirements
 - 4.3 Needed assets
 - 4.4 Monetization
 - 4.5 Tips on becoming a top app
 - 4.6 Google analytics