

ANDROID:

Android software package development is that the method by that new applications are created for devices running the mechanical man software. Google states that "Android apps are often written mistreatment Kotlin, Java, and C++ languages" mistreatment the mechanical man software package development kit (SDK), whereas mistreatment alternative languages is additionally attainable. All non-JVM languages, such as Go, JavaScript, C, C++ or assembly, want the assistance of JVM language code, that will be provided by tools, doubtless with restricted API support. Third party tools, development environments, and language support have conjointly continuing to evolve and expand since the initial SDK was free in 2008.

The mechanical man software package development kit (SDK) includes a comprehensive set of development tools. As of March 2015, the SDK isn't on the market on mechanical man itself, however software package development is feasible by mistreatment specialised mechanical man applications. The mechanical man Developer Challenge was a contest to seek out the foremost innovative application for mechanical man.

Course Content:

- Basic Core Java Concepts
- Introduction to Android
- Overview of Android and Android SDK
- History of Android

- Android features
- Android Architecture overview
- Introduction to OS layers
- Linux kernel
- Libraries
- Android Runtime
- Application framework
- Setup of Android Development environment
- System requirements
- Eclipse and SDK installation, AVD creation
- Creating first Android application
- Project Structure
- Android Application Fundamentals
- Android application building blocks
- Activating components
- Shutting down components
- Lifecycle of Application
- Development tools, Manifest File



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- Lifecycle of Activity
- User Interface
- View Hierarchy and Layouts
- UI Events
- Building Menus
- Notifying users
- Creating dialogs
- Graphics & Animations
- Main Building Blocks
- Activity
- Intents
- Services
- Content Providers
- Broadcast Receivers
- Resources
- Overview of Android Resources
- Creating Resources
- Using Resources

- Draw able Resources
- Animation Resources
- Data Storage
- Shared Preferences
- Internal Storage (Files)
- External Storage(SD Card)
- SQLite Databases
- Android Media API
- Playing audio/video
- Media recording
- Blue tooth
- Wi-Fi
- Camera
- Telephony Manager
- Location Services
- Google Maps
- Deploying Android Application on Device



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