

Android Game Development

Android is designed primarily for smart phones and tablets, the open and customizable nature of the operating system allows it to develop Android app. Even you can turn it into your own personal testing ground like security camera. After completing this workshop everyone will find yourself at a moderate level of expertise in Android programming from where you can take yourself to next levels.

Introduction to the Android world

- Android Architecture
- IO's Vs Android
- Scope as an Android App Developer
- Understanding Eclipse IDE
- What is API Levels?

Understanding the Building Environment for Android

- Basic programming languages intro: Java and XML
- What is Front-End and Back-End environment
- Designing Front-end through XML
- Designing Backend through JAVA
- Practicing various design Layouts

Understanding Layouts

- What are Layouts and Widgets?
- Working with various layouts: Linear, Relative, Table, Frame
- Working with various Widgets: Text-View, Edit-Text, Buttons, Image-Views, and Scroll View etc.
- Practicing Layout Nesting's on various Layouts
- What is Weight-sum and Gravity?

Getting familiar with Activity

- What are Activity and its Life-Cycle?
- Designing an Activity
- Practicing its Life-Cycle
- What is Manifest File
- Registering the Activity in Manifest File
- Setting up the Android Virtual Devices
- Testing your Hello World Application

Introduction to Intents

- What are Intents
- Types of Intents: Explicit and Implicit
- Starting another Activity using both types of Intents
- What is Bundle?
- Sending Data from one Activity to another
- Building Camera application, fetching image using Intent

Understanding various Notifications

- What is Toast?
- What is Dialog and Alert-Dialog?
- What is action-bar Notification?

Developing Applications

- Splash Screen Application
- Music Player Application
- SMS Application
- Email Application
- Text-To-Speech Application
- Game Application

Query Session

After completing workshop there will be a query session which will help students to clear all their doubts.

Competition

After the hand on theory and practical experience from the workshop, Competition will be conducted for the participants.

Certificate Distribution

Participants will get Participation Certificate and winners will get winning Certificates.