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## About Cojag:-

Cojag Smart Technology Pvt.Ltd operating under the trade name COJAG is an Indian technology oriented startup. Cojag was founded as an aim to develop an Internet of things (IoT) devices in IIT Kharagpur, but it's now based in Nagpur. Our aim is to create a unique world by amalgamating technology.

We are a group of young enthusiastic technocrats currently creating our footprints in various domains of IoT sector, agriculture, education and consultancy services. The firm also provides platform to young talent with a vision of acknowledging and materializing their innovative ideas. We have major investments in IoT, Analytics, Machine Learning, Artificial Intelligence, Web & App development and Hardware modelling. We promote the idea of co-working space and provide industrial space on rent to set up new plants.

If you are a startup, small or medium sized enterprise, you can benefit by engaging us in any or all of your areas from product ideation till it become live. The beauty is that we associate ourselves closely with you to ensure the strategies are executed with finesse to deliver results.

# ANDROID DEVELOPMENT

## Summary

Android development is one of the trendy and ever-growing field in which lots of students look to make it as a career. It is through an android that different individuals, companies and corporate represents their brand. In today's age of internet everyone would like to see your online presence and an Android develops a trust in the consumer's mind. In order to enhance the designing skills of students, we have designed "Workshop programs of Android development".

## Introduction

A workshop on "ANDROID APPLICATION DEVELOPEMENT" presented by COJAG Smart Technology Pvt.Ltd. sLearn to develop applications in the latest operating system with practical implementation and begin managing your own cool applications like a professional at this workshop. A major share of hand-held devices runs on the Android Operating System, which is open source and customizable. The Android Application Development Workshop provides participants technical training on the concepts and programming methodologies needed to develop applications for mobile devices. Participants will learn to use different android libraries. Instruction is aided with live projects which will allow students to grasp concepts of the complete mobile application development life-cycle.

A live speaker and instructor are available to answer questions during this 2 day workshop. Let a trained professional show you how to create and manage Android Applications.

## Workshop Goals

Android is one of the most commonly used OS for mobile devices. This workshop focuses on design and implementation of Android applications. With the basic knowledge of JAVA you will be able to develop an android app from the scratch to publishing it in a Google Play Store. The goal of the workshop is to stimulate the participant to be an Android Application developer. This workshop is a hands-on workshop using Android Studio.

## **Goals for the workshop includes:**

- To get familiarized with Java programming for android application development.
- Learn how to build and deploy Android applications to understand the working of application, application lifecycle, configuration files, intents, and activities.
- To gain knowledge about UI - components, layouts, event handling, and screen orientation.
- To develop a working knowledge of the custom UI elements and positioning.
- To learn the networking capabilities such as JAVA Sockets, JAVA XML and JSON.
- To develop a basic application that acts as a working example of all the topics covered in the class.

## **Workshop Format and Application Development Sessions**

### **1. Summary of Application Development - Day 1**

#### **Introduction to Application Development (Android)**

- What is Android?
- Understanding the Basic of Android OS
- The Framework
- Building Blocks of Android
- Application Lifecycle
- Installation of Android Development
- Configuration of Android Development Environment on your Computer
- Making the UI using XML for Android
- What is Java? Why is Java Easy to Learn? Why is Java Secure?
- Why being Platform Independent Important?
- Java Classes and Objects, Class Methods and Instances, Basic Program of Java
- Compiling the Code

- What is the Use of Manifest File in Android Development Environment?
- Creating the Virtual Android Device like ANDROID 1.5
- Make a simple Registration and login Application in Android
- Make Advance Program for Android Device
- Debugging the Code.

## 2. Basic Software Requirement and Installation

- Java (JVM)
- Android Studio.
- Xampp

## 3. Problem Panel

- Interactive session.
- Doubt clearing session.

## 4. Summary of Application Development - Day 2

Making an Android Application (Login and Registration Application)

Making an Android Application which allows a user to login or register himself/ herself in an application which will cover all the basics that was covered in Day1 session and this will allow all the students to have a hand on of what they have learned.

It will allow students to have a good hands on with Java, Android as well as they will get to know about the working of server and other components.

*Registrations starting from 1<sup>st</sup> Sept, 2017*

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