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The Annual Techno Management Fest

WISSENAIRE

Android App Development

4(3+1) Weeks Program

➤ SESSION 01

Introduction to JAVA

- Introduction to Programming
- Algorithms & Flowcharts
- Object Oriented Programming
- Starting with JAVA
- Basic Syntax & Practices in JAVA
- JAVA for Android Application Development

➤ SESSION 02

Introduction to Android Development

What you will learn:

1. Android Installation
2. Android Architecture
3. Android Marshmallow 6.0 - Features
4. Creating Android Hello World Project in Android Studio

➤ SESSION 03

Overview on Activity, Intent, Layouts and Controls

What you will learn:

1. Android Activity Lifecycle
2. Intents
3. Pass and launch Activities
4. Process of saving data using Action Bar
5. Define Layout and Various Menu
6. Input Controls, Dialogs, Toast Messages Settings



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➤ SESSION 04

Services And Broadcast Receivers

What you will learn:

1. Different types of Service
2. Bound Service
3. Demonstration to create Bound Service
4. Lifecycle of Bound Service
5. Broadcast Service with Demonstration

➤ SESSION 05

UI and Fragments

What you will learn:

1. Fragment in Android Application
2. Dynamic UI with Fragments
3. Manage Task and Back Stack

➤ SESSION 06

Content Providers

What you will learn:

1. Basic of Content Providers
2. Process of creating content Provider
3. Calendars and Contact Provider

➤ SESSION 07

Location and Sensors

What you will learn:

1. Learn to Retrieve current Location
2. Apply Map with Location
3. Sensors and list the different types



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➤ SESSION 08

Multimedia: Audio, Video and Camera

What you will learn:

1. Basic of Content Providers
2. Process of creating content Provider
3. Calendars and Contact Provider

➤ SESSION 09

Introduction to Google Play

What you will learn:

1. Google Play and norms to upload your application
2. Checklist to upload your application in Google play

➤ SESSION 10

Network Operations

What you will learn:

1. Connecting to Network
2. Managing Network Usage
3. Parsing XML data

➤ SESSION 11

Volley for Network data Interactions

What you will learn:

1. Sending Simple request
2. Setting up request queues
3. Making Standard Requests
4. Implementing custom requests



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➤ SESSION 12

Fabric Plugins for Twitter and Digits Login

What you will learn:

1. Integrating twitter Login Button
2. Integrating Digits Button for Mobile Verification
3. Building Crashlytics Reports
4. Monetizing your application with MoPub

➤ SESSION 13

Best Practices for User Interfaces

➤ SESSION 14

Creating Wearable Apps

What you will learn:

1. Creating and Executing Wearable App
2. Ergonomics and Design Principal of Android Wear

Custom UI for Wearable Apps

What you will learn:

1. Creating Custom UI
2. Defining Layout
3. Creating Cards
4. Creating Lists
5. Showing confirmation
6. Exiting Full screens

➤ SESSION 15

Wearable Features

What you will learn:

1. Adding Wearable features to Notification
2. Creating Wearable Apps

Data Syncing



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➤ SESSION 16

Watch Faces

What you will learn:

1. Design Watch Faces
2. Building a Watch face services
3. Drawing Watch Faces
4. Showing Information in Faces
5. Creating Interactive watch faces
6. Battery Optimization

Location aware Wearable Apps