SAMBODHI

Java

Android Training Course

`Project Based Immersive Learning Course`

Course Overview?

The certificate course offered by Education Nest on Android is a comprehensive program that focuses on teaching individuals how to utilize their skills to create an android application. The course has been specially designed to simplify and streamline the process of building and managing android applications. Upon completion of this Android course, individuals will be able to develop android applications and showcase their creativity by registering them on the Google Play store. The training covers several important topics, including Android architecture, its components and resources, the Application life cycle, Layout Manager, styles, menus, intents, broadcast notifications, SQLite database, and Google Play store registration. By the end of the course, individuals will gain expertise in these areas, allowing them to create high-quality android applications with ease.

Benefits of Android Training Course :

Android is the most popular mobile operating system in the world, and learning how to develop apps for it is a highly sought-after skill. If you are trained and certified in Android, then you will definitely be successful in your career. As an Android developer, you have the opportunity to work on cutting-edge technology and create innovative solutions for real-world problems. Learning Android

development can help you improve your problem-solving and critical thinking skills, which can benefit you in many areas of your life.

Who should learn:

- Software Developers
- System Developers
- Web Developers

- Freshers/Graduates
- Android app enthusiasts

Why do you need Android Training Course?

Average Salary Growth:

The average salary growth of an Android developer can vary based on several factors such as experience, location, skillset, and industry demand. However, generally speaking, the salary of an Android developer tends to increase with experience and expertise. According to a report by PayScale, the average salary of an Android developer in the United States ranges from around $60,000 per year for entry-level positions to over $120,000 per year for experienced developers. In India, the average salary for an Android developer ranges from around INR 200,000 per year for entry-level positions to over INR 1,000,000 per year for senior-level positions.

Industries:

The demand for Android developers in various MNCs is quite high, given the increasing importance of mobile applications in today's digital world. MNCs across various industries are hiring Android developers to develop and maintain their mobile applications. Here are some examples of the demand for Android developers in various MNCs: Google, Samsung, Microsoft, E-commerce companies such as Flipkart, Alibaba, and Amazon also have a high demand for Android developers to work on their mobile applications. Financial institutions

such as JPMorgan Chase and Bank of America are also hiring Android developers to work on their mobile banking applications.

Position in Market:

According to the U.S. Bureau of Labor Statistics (BLS), the employment of software developers, which includes Android developers, is projected to grow by 21 percent from 2019 to 2029. There are 3 million apps available on the Google Play Store, which have been downloaded a total of 180 billion times as of 2021. The BLS attributes this growth to the increasing demand for computer software and applications across various industries. As mobile applications continue to become more popular among businesses and consumers alike, the demand for Android developers is expected to continue to grow.

Designations:

- Android Developer
- Mobile App Developer
- Software Engineer
- Project Manager

Why Android Training Course from Education Nest

- **Free Demo on Request**
- **Live Interactive Learning**
- **Lifetime Access**
- **Flexible Schedules**
- **24x7 Support**
- **One on One Doubt Clearing**
- **Real Time Project-Based Learning**
- **Certificate Oriented Curriculum**

Key Skills Covered:

- Android basics
- components of Android
- application life cycle resources
- Creating Menus and Layouts in Android
- Using the SQLite database
- Working on animation
- Content creation

- data storage and Maps API
- Android Studio
- DDMS
- Listeners
- Designing interactive apps with multimedia
- Publishing the apps on the Google Play store

Android Training Course Syllabus

Introduction to Android

- How it all got started
- Why Android is different (and important) ?
- The Android Execution Environment
- Introduction to Eclipse in Android

Introduction of Android Stack

- Overview of the stack
- Linux kernel
- Native libraries
- Dalvik
- App framework
- Apps

SDK Overview

- Platforms
- Tools
- Versions

Hello World App

- Creating your first project
- The manifest file
- Layout resource
- Running your app on Emulator

Main Building Blocks

- Activities
- Activity lifecycle
- Intents
- Services
- Content Providers
- Broadcast Receivers

Basic Android User Interface

- XML versus Java UI
- Dip's and Sip's
- Views and layouts
- Common UI components
- Handling user events

Android system Overview

- File System
- Preferences
- Notifications
- Security model

Advanced UI

- Selection components
- Adapters
- Complex UI components
- Building UI for performance
- Menus and Dialogs
- Tabbed Activities
- Navigation Drawer
- Graphics & animations

Multimedia in Android

- Multimedia Supported audio formats
- Simple media playback
- Supported video formats
- Simple video playback

SQL Database

- Introducing SQLite
- SQLite Open Helper and creating a database
- Opening and closing a database
- Working with cursors
- Inserts, updates, and deletes

Basic Content Providers

- Content provider MIME types
- Searching for content
- Adding, changing, and removing content
- Native Android Content Providers
- Accessing Contact Book, Calendar

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Custom Content Providers

- Custom Content Provider classes
- Publishing content providers

Location Based Services and Google Maps

- Using Location Based Services
- Working with Google Maps

Services

- Overview of services in Android
- Implementing a Service
- Service lifecycle
- Inter Process Communication (AIDL Services)

Broadcast Receivers

- What are Broadcast Receivers
- Implementing broadcast receiver
- System broadcasts and how to use them

Intent Filters

- Role of filters
- Intent-matching rules
- Filters in your manifest

Networking

- Working with web services
- Best practices

Sensors

- How Sensors work
- Lig to Sensor readings

Wi-Fi

- Monitoring and managing Internet connectivity
- Managing active connections
- Managing Wi-Fi

Telephony

- Telephony background
- Accessing telephony information
- Monitoring data activity and connectivity
- Working with messaging SMS

Camera

- Taking pictures
- Rendering previews

Bluetooth

- Controlling local Bluetooth device
- Discovering and bonding with Bluetooth devices

OpenGL ES

- Introduction to OpenGL ES
- Introduction 2D Graphics

Animation Resource Controlling

- Twin Animation
- Frame Animation

Android Application Deployment

- Android Application Deployment on device with Linux and Windows
- Android Application Deployment on Android Market

Career Support

Profile Building :

Experienced professionals are available to offer tailored assistance in crafting your CV and online profiles, taking into account your unique educational and experiential background.

Interview Preparation :

The upcoming interview preparation service will include personalized one-on-one sessions and the option for mock interviews if needed.

Job Referrals :

At Education Nest, we receive a variety of job requirements from diverse sources such as organizations, our clients, HR consultants, and a vast network of Education Nest currently employed in different companies. We strive to meet these varied requirements to the best of our abilities.

Continuous Support :

We offer continuous support for as much time as you need it, and a considerable number of our learners receive multiple interviews offers and promising employment opportunities as a result of the abilities they gain during the program.