

COUNTRYEDU PRIVATE LIMITED

GSTIN : 06AAJCC6151A1Z3 | CIN : U72900HR2021PTC096283

Email : query@countryedu.com, grievances@countryedu.com

2-Months Android Development Immersion Internship

Designed by: CountryEdu Private Limited

By CountryEdu Private Limited

(IT Managed Services & EdTech Solutions)

Program Objective :

- Understanding Android application development using modern mobile development frameworks
- Developing expertise in Java, Kotlin, Android Studio, and Android application architecture
- Learning responsive mobile UI design, navigation systems, and user experience principles
- Building scalable Android applications with database integration and API connectivity
- Understanding mobile security, performance optimization, and application deployment processes
- Preparing students for careers in Android Development, Mobile Application Development, and Software Engineering

Program Structure :

- Duration: 8 Weeks (2 Months)
- Mode: Hybrid / Live / Classroom
- Tools Used: Android Studio, Java, Kotlin, Firebase, SQLite, GitHub, XML, REST APIs
- Final Outcome: Android Mobile Application Project + Internship Certificate

MONTH 1 – ANDROID DEVELOPMENT FOUNDATION

Week 1: Introduction to Android Development & Programming Fundamentals

- Android Ecosystem & Mobile Application Development
- Android Studio Installation & Environment Setup
- Introduction to Java & Kotlin Programming
- Variables, Data Types & Operators
- Control Structures & Functions

~ Outcome: Strong foundation in Android development concepts and programming fundamentals.

Week 2: Android User Interface & Layout Design

- XML Layout Design Fundamentals
- UI Components & Widgets
- Material Design Principles
- Responsive Layout Development
- User Interaction & Event Handling

~ Outcome: Ability to create responsive and user-friendly Android application interfaces.

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Week 3: Activities, Navigation & Application Architecture

- Activities & Activity Lifecycle
- Intents & Navigation Components
- Fragments & User Flow Management
- Object-Oriented Programming Concepts
- Android Application Architecture

~ Outcome: Ability to build structured Android applications with efficient navigation systems.

Week 4: Data Storage & Database Management

- SQLite Database Fundamentals
- CRUD Operations
- Shared Preferences & Local Storage
- Firebase Database Introduction
- Data Management Best Practices

~ Outcome: Ability to manage application data using local and cloud-based storage solutions.

MONTH 2 – ADVANCED ANDROID DEVELOPMENT

Week 5: API Integration & Backend Connectivity

- REST API Fundamentals
- HTTP Requests & Responses
- JSON Parsing Techniques
- Third-Party API Integration
- Error Handling & Data Validation

~ Outcome: Ability to connect Android applications with backend systems and external services.

Week 6: Firebase & Advanced Android Features

- Firebase Authentication
- Cloud Firestore Integration
- Push Notifications
- Media & File Management
- User Authentication & Security

~ Outcome: Ability to build feature-rich Android applications with cloud-based services.

Week 7: Testing, Debugging & Performance Optimization

- Android Testing Fundamentals
- Debugging Techniques
- Application Performance Optimization
- Memory & Resource Management
- Git & GitHub Version Control

~ Outcome: Ability to optimize, debug, and maintain professional Android applications.

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Week 8: Deployment & Industry Best Practices

- APK Generation & Build Management
- Google Play Store Deployment Process
- Mobile Application Security
- Industry Development Standards
- Professional Development Workflow

~ Outcome: Ability to prepare production-ready Android applications following industry standards.

LIVE PROJECT & CAREER READINESS

Major Project Development

Students work on real-world Android Development projects such as:

- Food Delivery Application
- E-Commerce Mobile App
- Expense Tracker Application
- Healthcare Management System
- Student Management Application
- Travel & Booking Platform

Project Includes:

- Requirement Analysis & Planning
- UI/UX Design & Application Architecture
- Database & API Integration
- Testing & Performance Optimization
- Deployment Preparation
- Final Project Presentation

~ Outcome: Fully functional industry-level Android application demonstrating mobile development, backend integration, and deployment capabilities.

From beginner to job-ready — Become an Android Development Professional in 2 Months.