

COUNTRYEDU PRIVATE LIMITED

GSTIN : 06AAJCC6151A1Z3 | CIN : U72900HR2021PTC096283

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

Android Development Immersion Internship

Designed by: CountryEdu Private Limited

By CountryEdu Private Limited

(IT Managed Services & EdTech Solutions)

Program Objective :

To transform students into job-ready Android Developers capable of:

- Building modern Android mobile applications using industry-standard development tools
- Understanding mobile application architecture, UI/UX principles, and Android workflows
- Developing responsive and interactive Android applications with backend integration
- Gaining hands-on experience in database connectivity, APIs, and app deployment
- Learning industry-standard coding practices, debugging, and version control workflows
- Preparing students for careers in Android App Development and Mobile Software Engineering

Program Structure :

- Duration: 12 Weeks (3 Months)
- Mode: Hybrid / Live / Classroom
- Tools Used: Android Studio, Java, Kotlin, Firebase, SQLite, GitHub, XML, VS Code
- Learning Model: Project-Based Learning Model

Final Outcome: Ability to build and deploy Android mobile applications professionally + Internship Certificate

MONTH 1 – ANDROID DEVELOPMENT FUNDAMENTALS

Week 1: Introduction to Android Development

- Introduction to Android OS & Mobile App Development
- Android Studio Installation & Setup
- Understanding Android Architecture
- Introduction to Java/Kotlin
- Variables & Data Types
- Building First Android Application

~ Outcome: Strong foundation in Android development and programming basics

Week 2: Android UI Design & Layouts

- XML Layout Design
- TextView, Buttons & Input Fields
- Layouts & Navigation
- RecyclerView & ListView Basics
- Responsive UI Design
- Material Design Principles

~ Outcome: Ability to design responsive and interactive Android application interfaces

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Week 3: Java/Kotlin Programming Fundamentals

- Functions & Loops
- Arrays & Collections
- Object-Oriented Programming
- Exception Handling
- Activity Lifecycle
- Intent & Navigation Basics

~ Outcome: Ability to write structured and reusable code for Android applications

Week 4: Advanced Android UI & Components

- Fragments & Navigation Components
- Menus & Dialog Boxes
- Custom UI Components
- Animations & Transitions
- Shared Preferences
- Mobile UI/UX Best Practices

~ Outcome: Ability to create professional and user-friendly Android interfaces

MONTH 2 – BACKEND INTEGRATION & APP FUNCTIONALITY

Week 5: Firebase & Database Integration

- Introduction to Firebase
- Firebase Authentication
- Realtime Database Basics
- Cloud Firestore
- Data Storage & Retrieval
- Firebase Security Basics

~ Outcome: Ability to integrate backend services and databases with Android applications

Week 6: API Integration & Networking

- REST API Basics
- JSON Parsing
- API Requests & Responses
- HTTP Networking Basics
- API Integration in Android
- Error Handling Techniques

~ Outcome: Ability to connect Android applications with external APIs and services

Week 7: Advanced Android Features

- Notifications Basics
- Camera & Gallery Integration
- File Handling
- Google Maps Integration
- App Permissions
- App Performance Optimization

~ Outcome: Ability to build feature-rich and optimized Android applications

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Week 8: GitHub & App Deployment

- Git & GitHub Workflow
- Version Control Basics
- Debugging & Testing
- APK Generation
- App Deployment Process
- Google Play Store Introduction

~ Outcome: Ability to professionally manage and deploy Android applications

MONTH 3 – LIVE PROJECT & CAREER READINESS

Week 9–10: Android Project Development

Students work on real-world Android Projects such as:

- Food Delivery App
- Expense Tracker App
- Chat Application
- E-Commerce Mobile App
- Weather Forecast Application
- Student Management App

Project Includes:

- Requirement Analysis
- UI/UX Planning
- Frontend & Backend Integration
- Testing & Debugging
- Final Project Presentation

~ Outcome: Ability to build complete real-world Android mobile applications

Week 11: Deployment & Professional Workflow

- App Publishing Workflow
- Firebase Project Management
- Environment Configuration
- Project Documentation
- Portfolio Development
- GitHub Project Management

~ Outcome: Ability to professionally deploy and present Android projects

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Week 12: Interview & Career Preparation

- Android Development Interview Preparation
- Resume & LinkedIn Optimization
- Mock Interviews
- App Development Challenges
- Freelancing & Internship Guidance
- Career Pathways (Android Developer, Mobile App Developer, Kotlin Developer, Software Engineer)

~ Outcome: Placement-ready Android Developer with practical project experience

Key Skills Developed

- Android Studio Development
- Java & Kotlin Programming
- XML UI Design
- Firebase Integration
- REST API Integration
- Mobile UI/UX Design
- Git & GitHub Workflow
- App Deployment & Optimization

Target Roles After Completion

- Android Developer
- Mobile App Developer
- Kotlin Developer
- Java Developer
- Software Engineer
- Freelance Android Developer

Why This Program is Industry-Ready

- ✓ 100% Project-Based Learning
- ✓ Real-world Mobile App Development Experience
- ✓ Backend & API Integration Exposure
- ✓ Industry-standard Development Practices
- ✓ Portfolio & Career Preparation Included

From Beginner to Professional — Become an Android Development Expert in 3 Months.