

Android Application Programming

Duration - 18 Days / 144 Hours

Program Description

The objective of this Android development course is to equip learners with the knowledge and practical skills necessary to design, develop, and deploy high-quality Android applications.

By the end of the course, participants will be able to leverage Android's architecture, tools, and frameworks to create user-friendly and functional mobile applications

Learning Goals

- ❖ Understand Android architecture and ecosystem.
- ❖ Set up Android Studio and project structure.
- ❖ Design responsive user interfaces.
- ❖ Manage activity and fragment lifecycles.
- ❖ Utilize Room and Shared Preferences for data storage.
- ❖ Execute background tasks effectively.
- ❖ Implement inter-app communication with intents.
- ❖ Perform networking and integrate WebView.
- ❖ Create custom views and ensure accessibility.
- ❖ Apply testing and debugging techniques.
- ❖ Publish applications on app stores

Course Topics

- ❖ Introduction to Android
- ❖ Development Environment
- ❖ UI Design
- ❖ Activity and Lifecycle Management
- ❖ Data Management
- ❖ Concurrency and Background Tasks
- ❖ Inter-App Communication
- ❖ Networking and Web Integration
- ❖ Advanced Topics
- ❖ Testing and Debugging
- ❖ Publishing Applications

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Modules can be customized to suit client's specific needs and duration accordingly