Jaipur Engineers
Your One-Stop IT & Staffing Ecosystem

MOBILE DEVELOPMENT

Android App Development with Kotlin & Java

Android Studio • Kotlin • Java • Jetpack Compose • Room



COURSE FEE

₹25,000

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Android App Development with Kotlin & Java

Syllabus at a glance

01

Android Studio and app lifecycle

02

Kotlin and Java for Android

03

Android UI and navigation

04

State and architecture

05

Local and remote data

06

Testing, builds and release

PORTFOLIO PROJECT

Android Expense Log

Build a device-tested expense log in Kotlin and practise reading or integrating Java-based Android code.

Android App Development with Kotlin & Java

Core concepts

01

Android Studio and app lifecycle

Set up Android Studio, the SDK and an emulator. Explore the structure of an Android application.

02

Kotlin and Java for Android

Practise classes, data handling and interoperability between Kotlin and Java.

03

Android UI and navigation

Build Kotlin screens with Jetpack Compose and review XML layouts and Java-based screen code.

TOOLS & TOPICS

Android Studio • Kotlin • Java • Jetpack Compose • Room

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Applied skills

04

State and architecture

Use ViewModel, state, navigation and asynchronous workflows.

05

Local and remote data

Store records with Room, consume APIs and handle relevant device permissions.

06

Testing, builds and release

Test on a device, check errors and layout, and prepare a signed release build.

TOOLS & TOPICS

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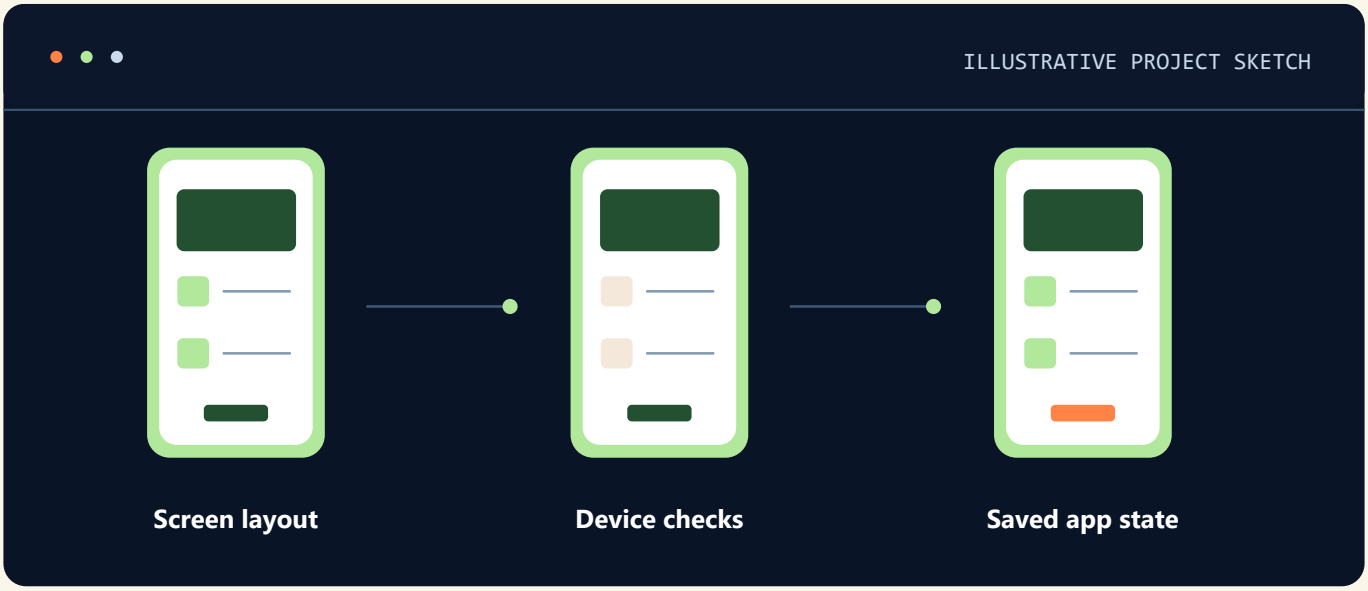
Android App Development with Kotlin & Java

Portfolio project

Android Expense Log

Build a device-tested expense log in Kotlin and practise reading or integrating Java-based Android code.



Map the screens

Outline the main interaction and the empty or offline state.

Test on a device

Check navigation, layout and data persistence across a restart.

An installable demo or simulator run, screen states and device-testing notes.

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Project checklist

Use these checks to prepare your project demo or portfolio handoff.

01

Record an expense

Check input validation, categories and saving a local record.

02

Verify after restart

Show that records persist and that empty and error states appear correctly.

03

Connect Kotlin and Java

Demonstrate an interoperability exercise and explain how you tested it.

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Course fees

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Contact admissions for current batches, class timings and enrolment details.

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SCAN FOR MAP

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Android App Development with Kotlin & Java

Course content

MODULES 01–02

01 Android Studio and app lifecycle

Lessons & practice

- Android Studio, SDK and emulator
- Project structure and lifecycle
- Debug builds and logs

HANDS-ON Run an app on an emulator and trace one lifecycle event.

02 Kotlin and Java for Android

Lessons & practice

- Kotlin types and classes
- Java classes and Android code
- Kotlin–Java interoperability

HANDS-ON Call a Java class from Kotlin and test the returned result.

Android App Development with Kotlin & Java

Course content

MODULES 03–04

03 Android UI and navigation

Lessons & practice

- Jetpack Compose screens in Kotlin
- XML layouts and Java screen code
- Navigation and accessible input

HANDS-ON

Compare a Compose screen and a Java/XML screen for the same data entry task.

04 State and architecture

Lessons & practice

- ViewModel and UI state
- Coroutines and asynchronous work
- Loading and error states

HANDS-ON

Keep form state readable while a request completes or fails.

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MODULES 05–06

05 Local and remote data

Lessons & practice

- Room entities and queries
- JSON API requests
- Device permissions and local persistence

HANDS-ON Save an expense, reload it after restart and display a failed network state.

06 Testing, builds and release

Lessons & practice

- Device and emulator testing
- Signing and release builds
- Performance and accessibility checks

HANDS-ON Run a device test, fix one issue and prepare a signed practice build.