

# TCR INNOVATION

## Android App Development with Kotlin

Internship Program





55+ Hours of Online Training



1:1 Live Mentoring



Career, Interview  
and Internship guidance



Learn 8+ Technologies



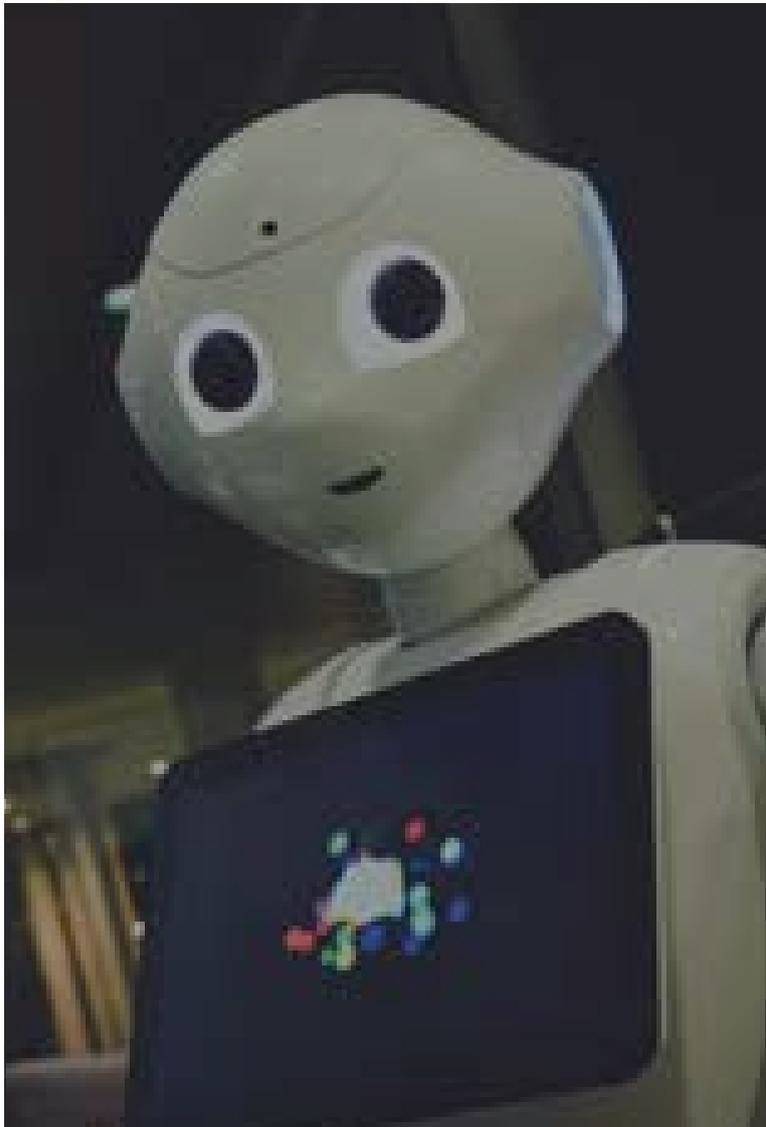
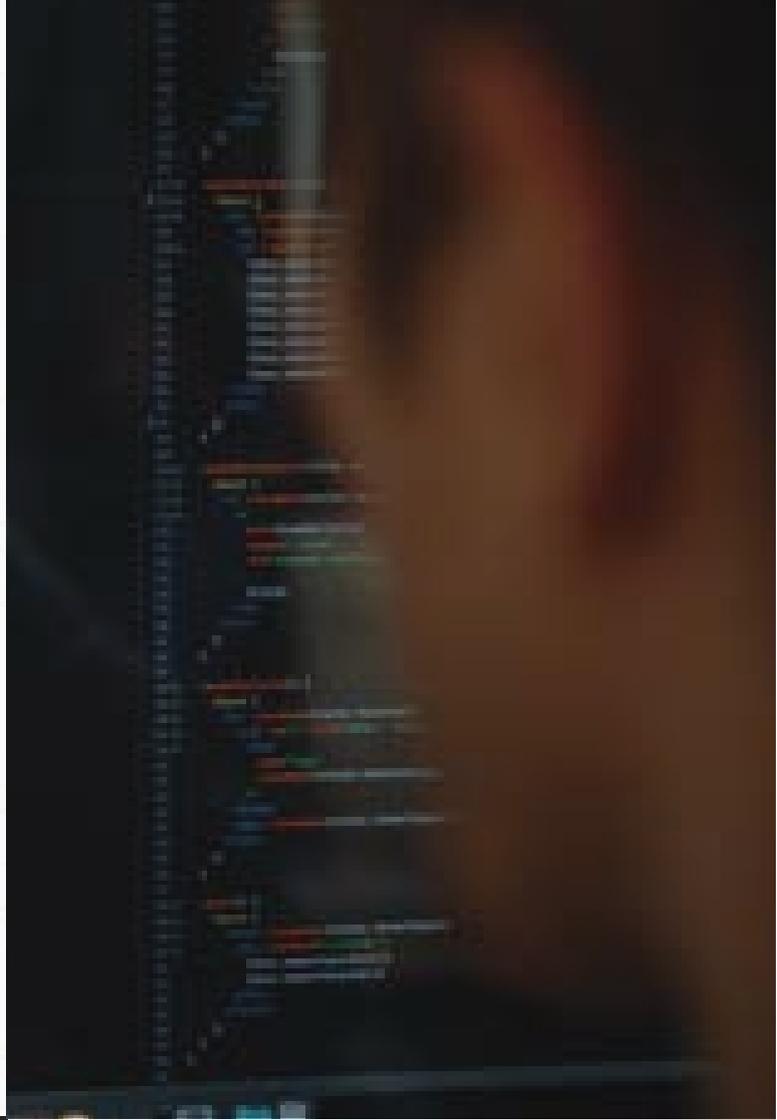
Learn from Industry Experts



Create your own  
hands-on Project



Intern with us



**TCR**  
INNOVATION

# Salient Features of This Internship Program

- 1 55+ Hours of Live Intensive Training
- 2 15+ Hours of Hands-on Assignments and Projects
- 3 Career, interview, internship and Placement guidance
- 4 Lifetime Access to Latest Content
- 5 Learn from the Experts
- 6 24X7 Support through Discussion form



## Who are we?

TCR Innovation is a career platform for Students and Learners where they are provided with practical opportunities, Industrial Training Programs and Internships.

## Mentor

Mentor is an Industrial Expert with an experience of more than 15+ Years and his students are part of Reputed Companies such as:



# SKILLS YOU WILL LEARN

## Android App Development with Kotlin

Part 1

### ● Introduction to Mobile Apps

Why we Need Mobile Apps

- Different Kinds of Mobile Apps
- What is Android?
- Android Features
- Brief Discussion on Java Programming
- Configuring Android Stack
- Setting up Android Studio

### ● Android Architecture

Overview of Android Stack

- Android Features
- Introduction to OS layers
- Overview of Android Stack
- Linux Kernel
- Libraries
- Android Runtime
- Application Framework
- Dalvik VM

### ● Creating Android Application

Creating Android Project

- Debugging Application through DDMS
- Setting up environment
- AVD Creation
- Executing Project on Android Screen
- Creating your first project
- The manifest file
- Layout resource
- Running your app on Emulator



# SKILLS YOU WILL LEARN

## Android App Development with Kotlin

Part 2

### ● Android Components

- Activities
- Services
- Broadcast Receivers
- Content Providers

### ● Building UI with Activities

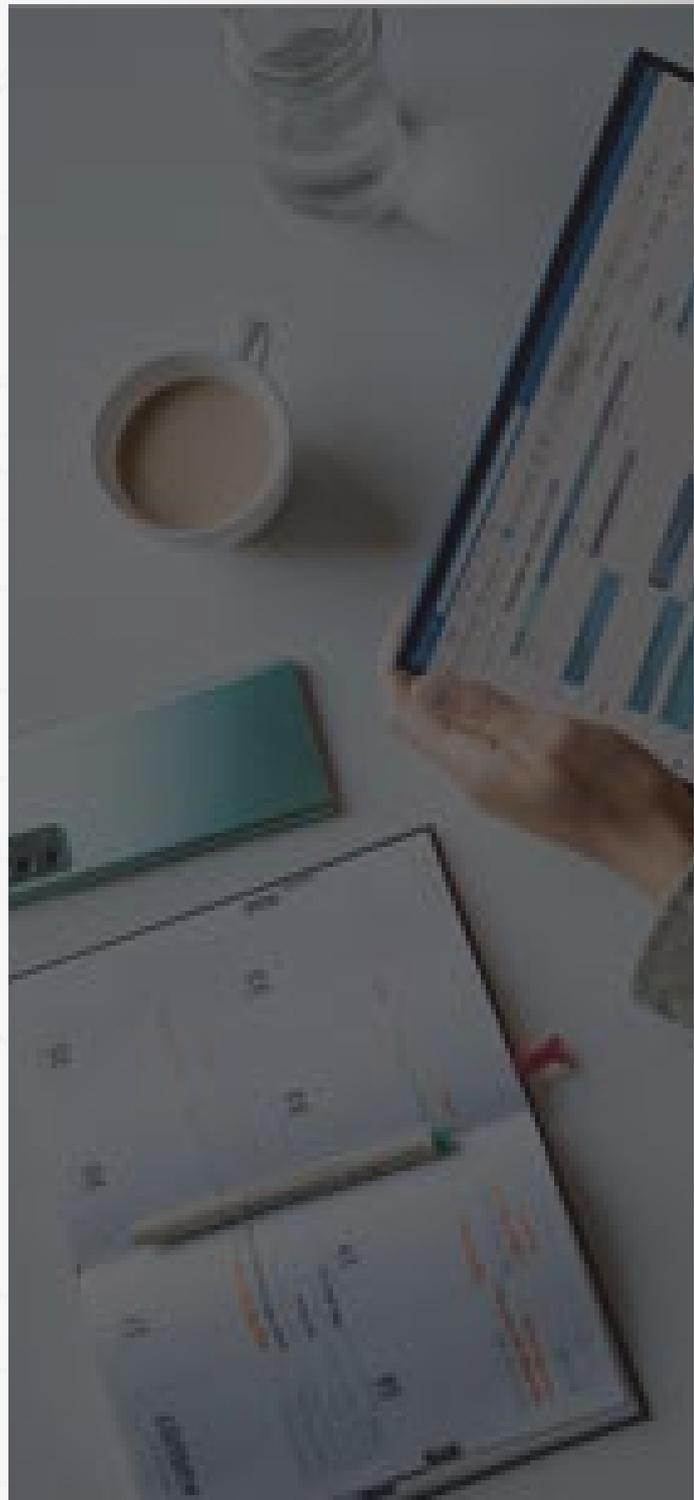
- Activities Views, layouts and Common UI components
- Creating UI through code and XML
- Activity lifecycle
- Intents
- Communicating data among Activities

### ● Advanced UI

- Selection components (GridView, ListView, Spinner )
- Adapters, Custom Adapters
- Complex UI components
- Menus

### ● Notifications

- Toast, Custom Toast
- Dialogs
- Status bar Notifications



# SKILLS YOU WILL LEARN

## Android App Development with Kotlin

### Part 3

#### ● Styles And Themes

- Creating and Applying simple Style
- Inheriting built-in Style and User defined style
- Using Styles as themes
- Resources and Assets
- Android Resource
- Using resources in XML and code

#### ● Multithreading

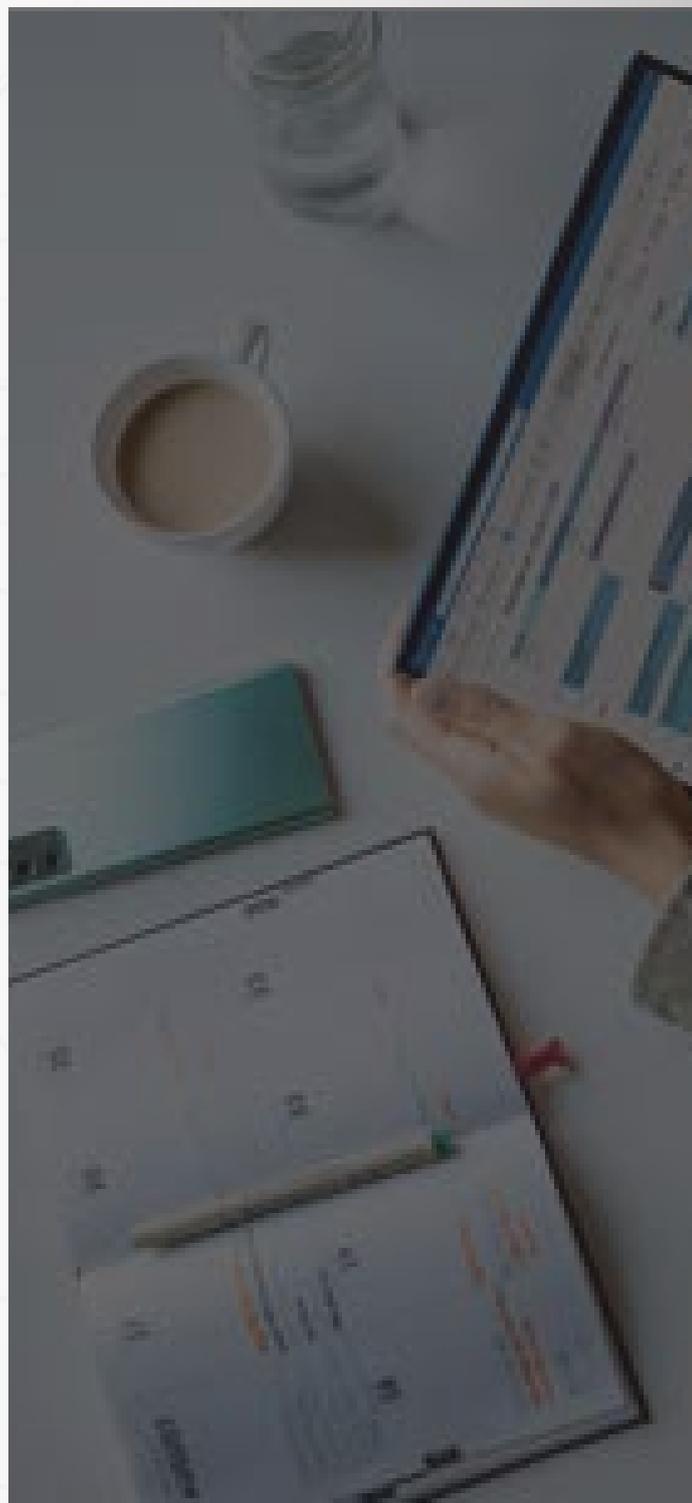
- Using Kotlin Multithreading classes
- AsyncTask

#### ● Data Storage

- Shared Preferences
- Android File System
- Internal storage
- External storage
- SQLite
  - o Introducing SQLite
  - o SQLiteOpenHelper and creating a database
  - o Opening and closing a database
  - o Working with cursors Inserts, updates, and deletes

#### ● Services

- Overview of services in Android
- Implementing a Service
- Service lifecycle



# SKILLS YOU WILL LEARN

## Android App Development with Kotlin

### Part 4

#### ● Intent, Intent Filters and Broadcast Receivers

- Role of filters
- Intent-matching rules
- Filters in your manifest
- Filters in dynamic Broadcast Receivers
- Creating Broadcast receiver
- Receiving System Broadcast
- Registering Broadcast receiver through

#### ● Content Providers

- Accessing built in content providers
- Content provider MIME types
- Searching for content
- Adding, changing, and removing content
- Creating content provider
- Working with content files

#### ● Multimedia in Android

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

#### ● Location Based Services and Google Maps

- Using Location Based Services
- Finding current location and listening for changes in location
- Working with Google Maps
- Showing google map in an Activity



# SKILLS YOU WILL LEARN

## Android App Development with Kotlin

### Part 5

#### ● Deployment of App Play Store

- Creating and deployment
- Analysing app
- Android Market/App Store
- Securing Android app





# Additional skills You will learn

- 
-  LinkedIn
  -  Github
  -  Improved communication skills
  -  Interview cracking
  -  Resume building
  -  Leadership skills



# Internship Project report

You will create a project report on your final internship project

- 
- What have we learnt
  - How can be these applied in realtime
  - Projects

# CERTIFICATION & REGISTRATION



## CERTIFICATE

Training Completion Certificate

Internship Certificate

Letter of recommendation

Appreciation certificate

## Internship Program Registration

Duration of the internship program: 2 Months

### How to Register & Fees:

Step 1: Attend the free orientation to get the detailed information about our internship program.

Step 2: Final Registration Form will be provided and fees will be disclosed in the orientation itself.