Publishing Android Libraries to GitHub Packages
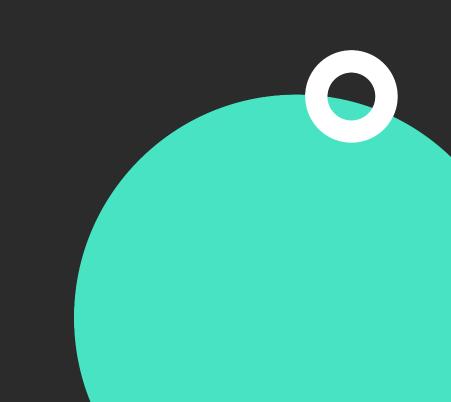
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Course Overview

- Understanding Android Library

- Understanding Repository Handler

- Pros & Cons of GitHub Packages

- Developing Android Library

- Publishing with GitHub Packages

- GitHub Access Control

- Practical Examples and Code Snippets

- Understanding or Handling Known Errors

Course Prerequisites

- Android Development Knowledge

- Familiarity with Kotlin

- Understanding of Gradle

- GitHub Experience

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Understanding Android Libraries

- What is an Android Library?

- Importance in Development

- Android Library Compiles
  - AAR (Android Archive)
  - JAR (Java Archive)

- Why AAR is Better than JAR?

Popular Android Libraries

- Dependency Injection
  - Hilt
  - Koin

- Networking Libraries
  - Retrofit

- Image Processing Libraries
  - Coin
  - Glide

- Database Libraries
  - Room
  - Realm

- Utility Libraries
  - Gson
  - Lottie

Understanding Repository Handler

- Introduction to Repository Handler
- Common Repository Handlers
  - Google
  - Maven Central
  - GitHub Packages
  - Jitpack
  - Private Repositories

Pros & Cons of GitHub Packages

Pros

- Integrated with GitHub Ecosystem

- Version Control and Collaboration

- Centralized Management

- Support for Various Languages

Cons

- Learning Curve

- Dependence on GitHub Infrastructure

- Cost for Private Repositories

Developing Android Library

Up Next

Publishing with GitHub Packages

Up Next

GitHub Access Control

Up Next

Implementing the Android Library in a New Project

Up Next

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Validating GitHub Package Library Integration

Up Next

Understanding Known Errors

Common HTTP Errors

- HTTPS Error 401: Unauthorized

- HTTPS Error 404: Not Found

- HTTPS Error 409: Conflict

- HTTPS Error 422: Unprocessable Entity

Understanding Known Errors

Other Frequent Issues

- Dependency Conflicts

- Build Failures

- Authentication Problems

Key Takeaway

- Effective Troubleshooting

Course Summary

- Comprehensive Android Library Development

- GitHub Packages Usage

- Effective Version Management

- Hands-On Demonstrations

- Understanding Known Errors

Thank You!

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