MindOrks Android Online Beginners Course - Syllabus

Course Link:
https://mindorks.com/android-app-development-online-course-for-beginners

- **Introduction & Prerequisite for this course**
  - Introduction to course
  - Prerequisite
- **Installing Android Studio IDE and Getting Started with Android**
  - What is Android and How it works?
  - Install Android Studio
  - Create Project - TodoNotesApp
  - Project Structure - TodoNotesApp
- **Login Design and Implementation**
  - What is Activity? [Concept]
  - Login Screen UI Design
  - What is View and how it works? [Concept]
  - What is an Intent? [Concept]
  - Intent put extra [Concept]
  - Activity Lifecycle with Example Use Cases [Concept]
  - Login Screen Click Handle
  - Login Screen Condition Check
  - Dialog Implementation
  - How to persist data? [Concept]
  - Shared Preferences
- **RecyclerView and Implementation**
  - Dynamic View and RecyclerView [Concept]
  - Intro to RecyclerView, Model, and Collection
  - All about Adapters in RecyclerView
  - Click listeners and interfaces in RecyclerView
- **Getting Started with Kotlin**
  - Kotlin and how to learn it? [Concept]
  - From Java to Kotlin [Reference]
  - Basics of Kotlin, and how to refactor the code from Java to Kotlin
  - Refactor Continued from Java to Kotlin
- **Singleton, Process and Thread**
  - What happens when you launch an app? [Concept]
  - Singleton [Concept]
  - Threading [Concept]
- **Database Implementation**
- What is Database? SharedPreference vs Database [Concept]
  - Implementing Room Database
  - Room Database Continued

- **Permissions and Image Loading**
  - Implementing Permissions and Using Glide
  - Permission continued

- **Work Manager**
  - Work Manager Introduction and Implementation

- **Notification**
  - Firebase setup and Implementation of Notification FCM
  - Notification Channel

- **Networking**
  - Json, Api Response, Menu, Android Networking
  - Integrating Android Networking

- **ViewPager and Fragment**
  - OnBoarding Using ViewPager, PagerAdapter and Fragment
  - OnBoarding Continued

- **Debugging and APK Release**
  - Debugging
  - APK Release

- **Essentials**
  - What is Context? [Concept]
  - Object Oriented Programming - OOP [Concept]
  - Class Design and Structure: Shared Preferences Refactor
  - How to Fix Error?
  - Bugs and Crash Fixes. UI and Code Improvements
  - File System, Read, Write, Assets read write
  - What is Intent and Intent Filter? [Concept]
  - ConstraintLayout in Android
  - Canvas API in Android [Concept]
  - Custom View [Concept]
  - Touch Control and Events in Android [Concept]
  - How does RecyclerView work internally? [Concept]
  - Resources - Final Project

- **Ride-Sharing Uber Lyft Android App - Introduction and Project Setup**
  - Introduction
  - Resources
  - Project setup with basic MVP Architecture

- **Ride-Sharing Uber Lyft Android App - Features Implementation**
  - Permissions, fetch current location and show nearby cabs
  - Pickup and drop location Using Places API
  - Book a cab and Driver Pickup path
○ Show Driver current location during pickup, Car Arrival
○ Trip Starts, Show Trip Path, Current location, Trip Ends
○ Implement Take Next Ride

Demo Video Link:
https://www.youtube.com/playlist?list=PL6nth5sRD25hfcDrf9aQ_XVocGijZh7Vy

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