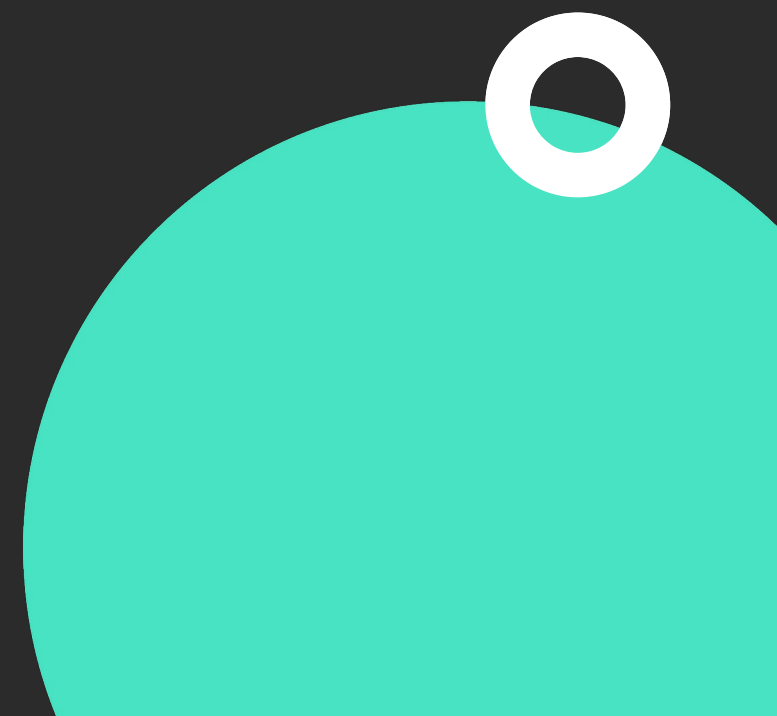# Android DataStore with Jetpack Compose
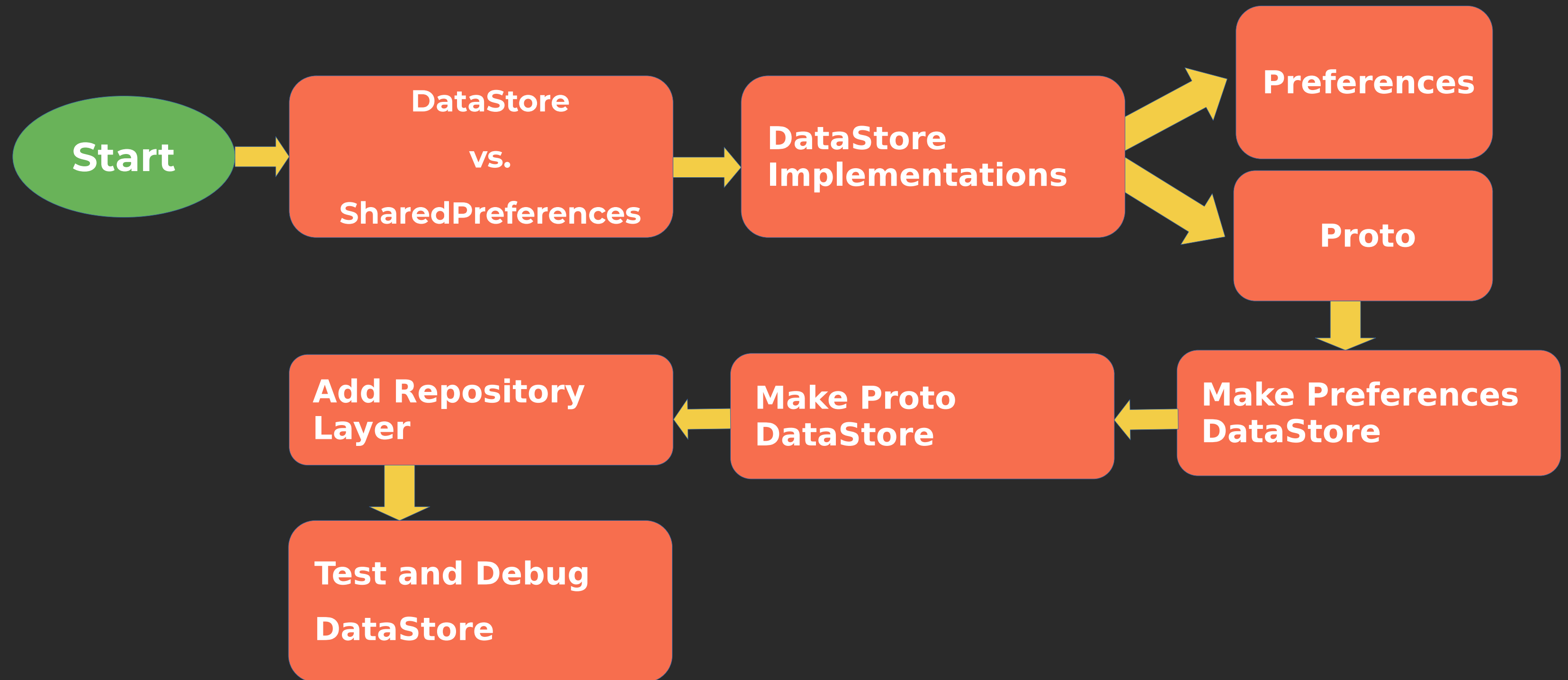
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Course Overview

Section Overview

- Course Requirements

- Jetpack DataStore Overview

- Sample Project Demo

- Clone Course Repo and Import Starter Project

Course Requirements

- Intermediate Android Development Skills

- Knowledge of Kotlin Programming Language

- Knowledge of Android Development

- Knowledge of Jetpack Compose

Jetpack DataStore Overview

- Data Storage Solution for Simple and Small Data Sets

- Built on top of Kotlin language, Kotlin Coroutines and Flow

- Asynchronous API

- Implementations :

  - Preferences DataStore

    - Data is stored in key-value pairs

  - Proto DataStore

    - Data is stored in typed objects (proto-buffers)
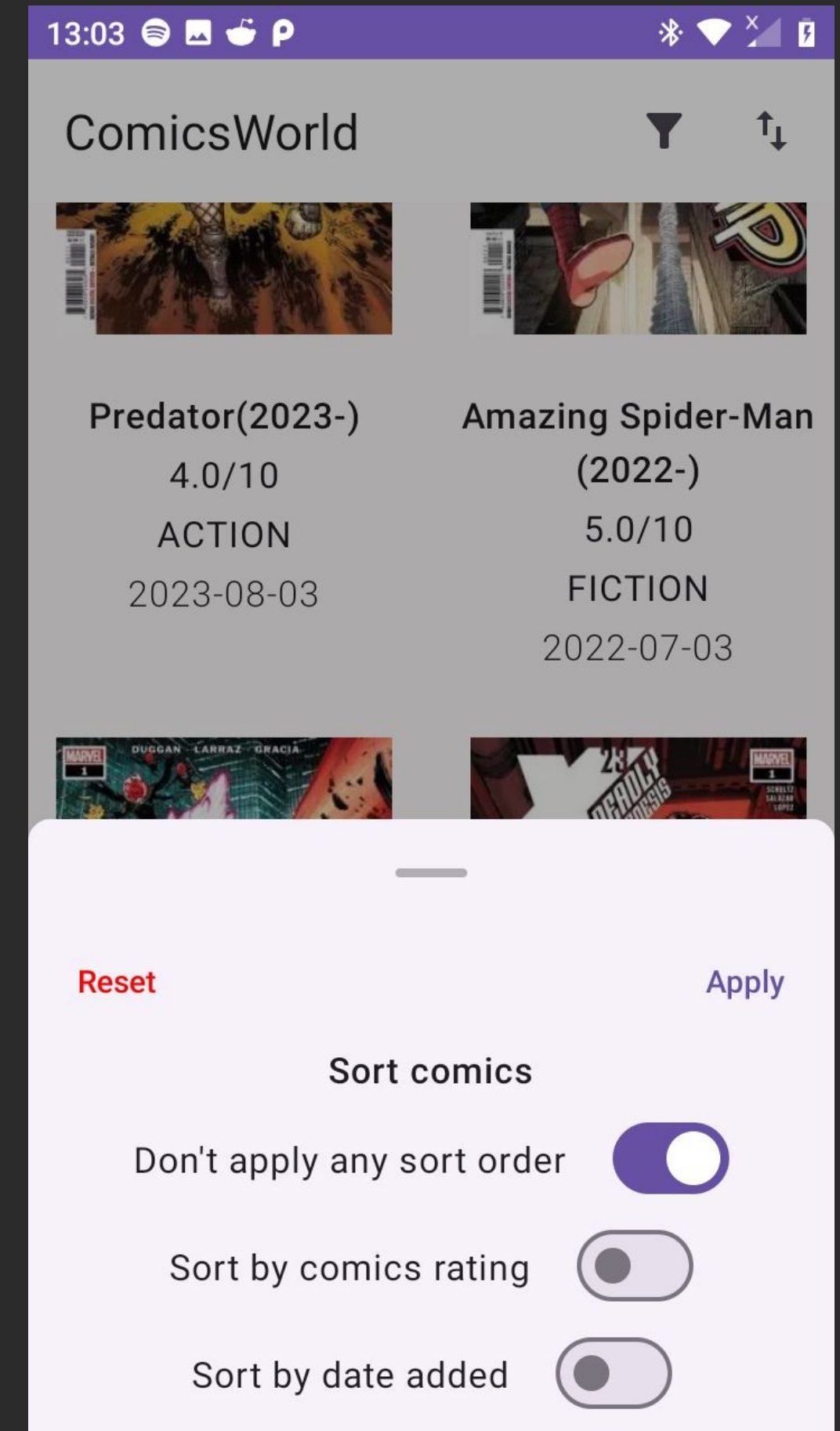
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Comparison

Feature	Shared Preferences	Preferences DataStore	Proto DataStore
Data migration feature	No	Yes	Yes
Type Safety	No	No	Yes via Protocol Buffers
Transactional API which guarantees strong consistency	No	Yes	Yes

Sample App: Comics World

- Comics World Overview

  - Features:

    - displays a list of comics

    - Has sort and filter features

    - The user's sort and filter preferences are stored in memory

  - Goal:

    - Store the user's sort and filter preferences using Preference Datastore and Proto Datastore

Project Repository

- Explore the starter project

  - Clone the project repo
    https://github.com/droidcon-academy/android-datastore-study-materials

  - Import the starter-project in Android Studio

  - Project walk-through

Section Summary

- Course Requirements

- Jetpack DataStore Overview

- Difference between Preference DataStore, Proto DataStore and Shared Preferences

- Sample App Review

- Clone Course Repository

Exploring the Preferences DataStore

Up Next