Preferences DataStore in Action

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Section Overview

- Connect our Preferences DataStore to PreferencesViewModel
- Add ComicsPreferencesScreen screen to show how Preferences DataStore works
- Run and verify the app

Code Challenge Review

- **enableSortByName** () function in **UserPreferencesRepository**
- **BY_NAME** sort order in **SortOrder.kt** file

PreferencesViewModel

The PreferencesViewModel will consume functions present in UserPreferencesRepository

```
     fun filterComicsByCategory(comicsCategory:
ComicCategory) {}

    fun sortComicsByRating(enabled: Boolean) {}

    fun sortComicsByDateAdded(enabled: Boolean) {}

    fun sortComicsByName(enabled: Boolean){}

    fun disableSorting() {}
```

ComicsPreferencesScreen

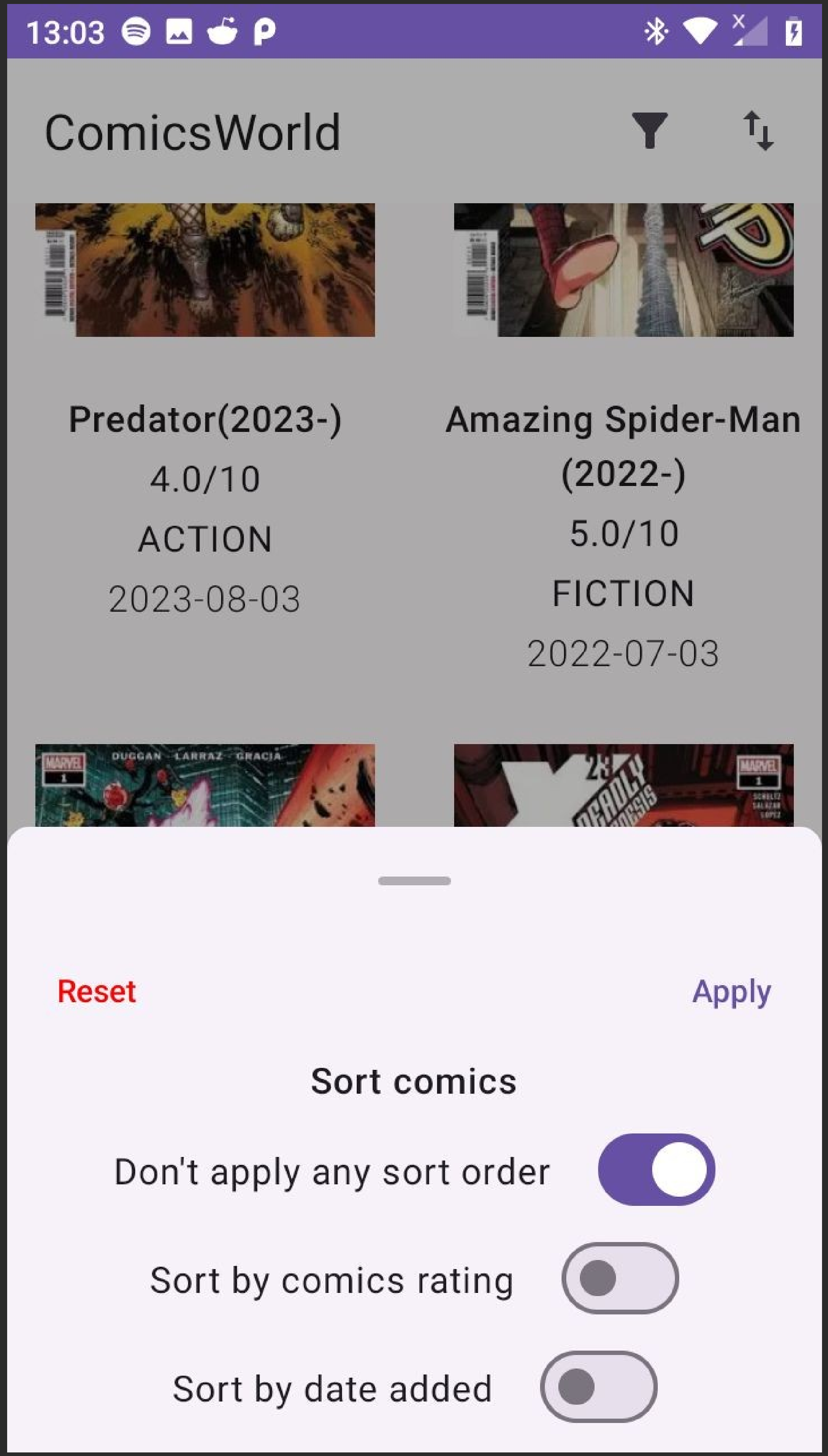
- Preferences UI screen for user interaction
- The user’s sort options will be persisted inside our Preferences DataStore
- The UI screen will interact with the Preferences DataStore through PreferencesViewModel

```
@Composable
fun ComicsPreferencesScreen(comicsPreferenceViewModel:
PreferencesViewModel = viewModel ( )  )  {
    val comicsUiModel by
comicsPreferenceViewModel.comicsUiModel.collectAsState ( )
    ComicsScreenView(
        comics = comicsUiModel.comics,
        userPreferences=comicsUiModel.userPreference,

filterComicsByCategory=comicsPreferenceViewModel::filterComic
sByCategory ,
        disableSorting
=comicsPreferenceViewModel::disabledSorting)
}
```

Running the App

Running the app to verify that the Preferences DataStore works



13:03

ComicsWorld

Predator(2023-)
4.0/10
ACTION
2023-08-03

Amazing Spider-Man (2022-)
5.0/10
FICTION
2022-07-03

Reset

Apply

Sort comics

Don't apply any sort order ●

Sort by comics rating ○

Sort by date added ○

Section Summary

- Create a ViewModel to connect Preferences DataStore to the UI screen
- Create the ComicsPreferencesScreen
- Swap ComicsUiScreen and ComicsPreferencesScreen in MainActivity
- Verify that the Preferences DataStore is working

Exploring the Proto DataStore

Up Next

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