How to Use this Template

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Watch Them All

Description

WatchThemAll is a series tracker app. Nowadays there are quite a lot of options regarding TV series. Sometimes it may be difficult to decide which series to watch and to be sure of not forgetting any episode of our favorite shows. This application aims to make all of that more easy to the user, at the same time that makes the hobby of watching and following TV series something much more enjoyable and funny.

Intended User

This app is intended to TV series lovers, specially to those people who want to keep track of their favorite shows, to stay always updated and to know about new series to watch.

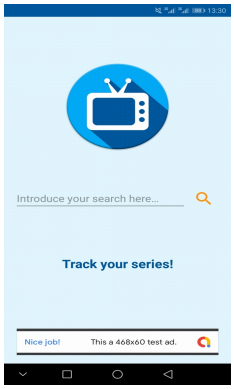
Features

- Search TV series by keywords.
- See the details of a certain show or episode (including other users comments).
- Mark (and consult) the series (or episodes) you want to watch in the future (the watchlist).
- Mark (and consult) the series you have already seen (the collection). The user will be able to assign a grade to each show.
- Mark (and consult) the series you are currently watching.
- Receive updated info about popular TV series.
- Personally configure some application settings: default order used in the results screen, initial screen opened when starting the app, etc.

User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Google Drawings, www.ninjamock.com, Paper by 53, Photoshop or Balsamiq.

Main Screen Search

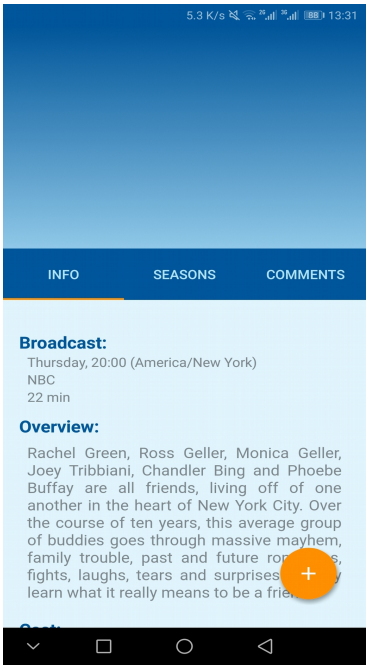


When the user introduces some search terms in the corresponding field, the app navigates to search results screen.

Screen 2

This screen will be also used for showing the user's series lists: the watchlist, the collection and the currently watching series.
When the user clicks on some of the series cards, the app will navigate to the series details screen.

Screen 3



Seasons tab will present the list of available seasons (and their corresponding episodes) for the selected series.
Comments tab will present a list of comments about the selected series, coming from trakt.tv users.
When the user clicks in some of the episodes shown on Seasons tab, the app will navigate to the episode details screen.

Key Considerations

How will your app handle data persistence?

Data persistence will be handled by the use of a local database (SQLite) in the user device, with the data stored in it exposed through a custom Content Provider. Later, a Cursor Loader will be used in order to retrieve the data to be shown on the different app layouts.

Describe any edge or corner cases in the UX.

The app implementation will try to consider any possible corner case, in order to avoid strange behaviours from the user point of view.
For example, when using the app without any network available the local data will still be accessible. And when no data could be retrieved for any reason, placeholder images will be used to point out this situation.
In addition, the possibility of not having any available image for a certain series or episode will be taken in consideration, in order to avoid strange or broken layouts.

Describe any libraries you'll be using and share your reasoning for including them.

Retrofit will be used to manage in a cleaner and more efficient way the API calls (and related JSON encoding/decoding) needed to retrieve series data.
Glide will be used to handle the loading and caching of images.
ButterKnife will be used for field and method binding. This way, the resultant code is much more cleaner and readable.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and break them down into tangible technical tasks that you can complete one at a time until you have a finished app.

Task 1: Project Setup

- Create a new empty Android Studio project for WatchThemAll app.
- Create a new Git/GitHub repository for the project. Remember including .gitignore and README.md files.
- Configure used libraries (following in each case the pertinent instructions), dependencies and other aspects in the Gradle files.
- Configure the use of trakt API: register the new API app on trakt.tv webpage in order to obtain the API key needed to make API calls.
- Analyze thoroughly trakt API documentation, in order to determine the calls that will be used to cover all the app features.
- Configure the use of the API key in the project in a way that allows easily not to include it in the repository.

Task 2: Implement UI for Each Activity and Fragment

- Build UI for Search screen (MainActivity).
- Build UI for Search results screen.
- Build UI for Series details screen.
- Build UI for Episode details screen.
- Build tablet specific layouts.
- Build UI for About and Settings screens.

All the UI implementation will be made taking in consideration the use of Material Design guidelines, features and components (such as Floating Action Button, Floating Action Menu, Coordinator Layout, Collapsing Toolbar Layout...).

Task 4: Implement trakt API integration

Implement classes needed for series data retrieving:

- A SyncAdapter in order to regularly get updated info about popular TV series. This data will be used later to feed the widget provided by the app.
- An AsyncTask in order to handle the ondemand requests for searching series by keywords from the app main screen or the top search box.

Task 5: Implement Google Play Services integration

- Build Google Admob integration. The app will show banner ads in the free variant.
- Build Google Analytics integration.

Task 6: Accessibility and internationalization

- Ensure that the app offers a good enough experience to users with disabilities, through the correct use of content descriptions, consistent and coherent focus navigation, etc.
- Ensure that the app supports RTL layout usage.

Task 7: Implement Popular Series widget

The app must provide a widget from which users will be able to consult updated info related to the most popular TV series.

Task 8: Configure app building

- Configure app signing, including the keystore and passwords in the repository.
- Ensure that app builds and deploys using the ‘installRelease’ Gradle task.

Task 9: Future lines and improvements

I want to point out in this section some additional features that I have already planned for WatchThemAll application. Some of them may be included (depending on the available time) in

the first basic version of the app (the one that will be presented as the Capstone project in the Nanodegree). And the rest will be increasingly included in the app in the future, as I am planning to continue with its development and improvement.

- Create app variants. The app will be offered in two flavors: free and paid. The difference between them will be in the use or not of ads when the app is running.
- Implement sharing functionality. A Share Action button will be provided in details screens in order to let users share some info about their favorite shows with their friends and family.
- Implement notifications. The app will provide the option to receive daily notifications with info about the series episodes being aired each day.
- Implement trakt account integration (through OAuth authentication). This way, the app will be able to provide new features related with the user account in trakt: synchronization, consult and modify user data (such as series lists, comments, series grades...), etc.
- Implement a watch face for Android Wearables, in order to get the app also integrate

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