

# Challenge Summary

Build an app that displays a scrollable list of films, allowing users to view additional details about the film and mark certain films they enjoy as “favorited” films.

The app should function as a universal app and have good layouts on both iPhone and iPad.

This app can be written in Objective-C or Swift.

If you desire, you may use pods for certain functionality. However, this entire app can be written using UIKit frameworks. Add pods at your discretion.

Imagine that you have a backend architecture to support this app. The architecture consists of databases that store film information and APIs that return relevant information from those databases.

There are two API endpoints that this app will utilize to display film information.

1. An endpoint that returns a list of the 15 films with the highest user rating.
2. An endpoint that returns a list of the 15 films with the highest film critic rating.

These endpoints return a JSON response with all relevant film information contained within.

For this challenge, two mock JSON responses has been provided for you. The response objects each contain an array of dictionaries. Each dictionary has an identical key-value pair structure, containing all necessary information about a given film. These mock responses should be used in this challenge.

Scroll downwards for more detailed information on the interfaces.


# Challenge Details

There are two interfaces for this app. The “home” interface and the “film details” interface.

## HOME INTERFACE


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User RatingsCritic Ratings



**Interstellar**


A team of explorers travel through a wormhole in space in an attempt to ensure humanity's survival.






**The Wolf of Wall Street**


Based on the true story of Jordan Belfort, from his rise to a wealthy stock-broker living the high life to his fall involving crime, corruption and the federal government.






**Django Unchained**


With the help of a German bounty hunter, a freed slave sets out to rescue his wife from a brutal Mississippi plantation owner.






**The Intouchables**


After he becomes a quadriplegic from a paragliding accident, an aristocrat hires a young man from the projects to be his caregiver.






**Inception**


A thief, who steals corporate secrets through use of dream-sharing technology, is given the inverse task of planting an idea into the mind of a CEO.






**Inglourious Basterds**


In Nazi-occupied France during World War II, a plan to assassinate Nazi leaders by a group of Jewish U.S. soldiers coincides with a theatre owner's vengeful plans for the same.






**The Dark Knight**

When the menace known as the Joker wreaks havoc and chaos on the people of Gotham, the caped crusader must come to terms with one of the greatest psychological tests of his ability




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User RatingsCritic Ratings



**The Shawshank Redemption**


Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency.






**The Godfather**


The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.






**The Godfather: Part II**


The early life and career of Vito Corleone in 1920s New York is portrayed while his son, Michael, expands and tightens his grip on the family crime syndicate.






**The Dark Knight**


When the menace known as the Joker wreaks havoc and chaos on the people of Gotham, the caped crusader must come to terms with one of the greatest psychological tests of his ability to fight injustice.






**12 Angry Men**


A jury holdout attempts to prevent a miscarriage of justice by forcing his colleagues to reconsider the evidence.






**Schindler's List**


In German-occupied Poland during World War II, Oskar Schindler gradually becomes concerned for his Jewish workforce after witnessing their persecution by the Nazi Germans.





**Pulp Fiction**

The lives of two mob hit men, a boxer, a gangster's wife, and a pair of diner bandits intertwine in four



- The home interface for this app should be a vertically scrollable list of films. Each film cell should display information relevant to the film. particularly:
  - An image for the film.
  - The title of the film
  - A short description of the film
  - A “heart” button providing “favoriting” functionality for the user.
  - All relevant film information is provided for you in the mock response, including film title, film description, and film image URLs.
- Each film contains a URL that resolves to an image for the film. Your app should use web requests to retrieve the image data and display it.
- At the very top of this interface, there should be a segmented control allowing the user to switch between the user rated films and the critic rated films. Tapping either option should refresh the list with the contents of the appropriate JSON response file. This segmented control should be “sticky”, meaning that the control should not scroll off of the screen when the contents of the vertically scrollable list are moved.
- Tapping on a cell in this list should display the “film details” interface. More details on this interface can be found in the “Film Details Interface” section.
- Tapping on the “heart” button should “favorite” that particular film. When a film is “favorited”, the heart button image asset should change from a hollow heart to a filled heart.
  - Favoriting data should persist throughout the session, meaning if a film is favorited and a user scrolls the cell for that film off of the screen, and then scrolls it back onto the screen, the cell should appear with a filled heart.
  - **Important note #1: Favoriting logic does not need to persist across sessions! If the executable is stopped via the XCode stop button and restarted, we expect the favorites to be cleared out!**
  - **Important note #2: There is some overlap between the user rated films and the critic rated films. For example, the film “Dark Knight” appears in both lists. If “Dark Knight” is favorited on the user rated list, it should automatically appear favorited on the critic rated list.**

#### ADDITIONAL NOTES

- You do not need to make the interfaces and spacing look exactly like the screenshot. The important aspect of the interface work is making sure that the layouts are consistent and function on the different iOS device sizes. **Focus on making the layouts as consistent as possible and simply use your best judgement for sizing and spacing.**
- Hollow heart assets and filled heart assets are provided for you. Feel free to use those in your interface.

## The Intouchables

Movies about disabilities and broken people too often cross the line into disease TV movie of the week territory.

France's The Intouchables avoids this pitfall by virtue of its solid performances from Francois Cluzet as a wealthy paraplegic and Omar Sy as the caretaker who refuses to pity him and manages to be moving without resorting to cheap sentimentality. The film was a huge hit in Europe but not in the U.S., proving once again that IMDb users are a very culturally diverse and geographically varied audience.



[Return to Film List](#)

## FILM DETAILS INTERFACE

- The “film details” interface for this app should display:
  - The title of the film.
  - The long description of the film.
  - A favorite button
  - A “Return to Film List” button that closes the interface.
- The film details should reflect the film that was tapped on the previous “home” interface.
- Tapping on the favorite button should toggle the favorite status for this film. If tapped when the heart is hollow, the heart should be filled and vice-versa.
- Tapping the “Return to Film List” button should close this interface and return the user to the “home” interface.

## ADDITIONAL IMPORTANT NOTES

- You do not need to make the interfaces and spacing look exactly like the screenshot. The important aspect of the interface work is making sure that the layouts are consistent and function on the different iOS device sizes. **Focus on making the layouts as consistent as possible and simply use your best judgement for sizing and spacing.**
- If any of the text provided by the film is too long, you can truncate the text with ellipsis (...)
- The “favorite” button on this interface should reflect the favorite status of the film. **If the film had been favorited on the “home” interface, then that should be reflected on this interface. If the film is favorited on this interface, then that should be reflected on the “home” interface.**