

## Summary

[Summary](#)

[Description](#)

[Intended User](#)

[Features](#)

[User Interface Mocks](#)

[Login Screen](#)

[Anime/Manga List Screen](#)

[Anime/Manga Detail Screen](#)

[Key Considerations](#)

[How will your app handle data persistence?](#)

[Describe any edge or corner cases in the UX.](#)

[Describe any libraries you'll be using and share your reasoning for including them.](#)

[Describe how you will implement Google Play Services or other external services.](#)

[Next Steps: Required Tasks](#)

[Task 1: Project Setup](#)

[Task 2: Implement UI for Each Activity and Fragment](#)

[Task 3: Internationalization](#)

[Task 4: Test](#)

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## AniMAL

### Description

Track animes and mangas that you watch and read or want to using My Anime List (also known as MAL) social network.

### Intended User

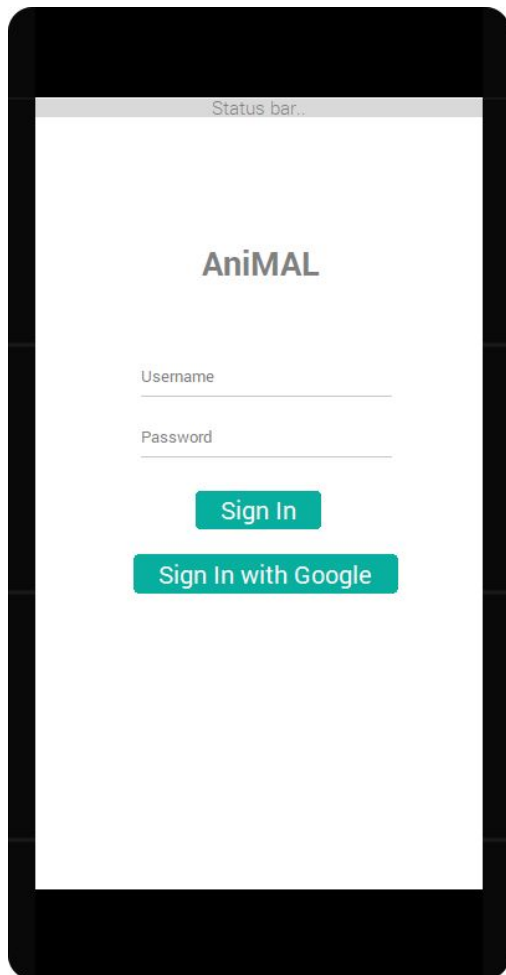
Anime and manga fans.

## Features

- Authentication on My Anime List social network (the user must have an account already)
- Search recent and old animes and manga
- Track the anime and manga you are watching, watched, dropped or want to see
- Give scores and write reviews
- Verify many details of each anime listed, like studio, reviews, rates

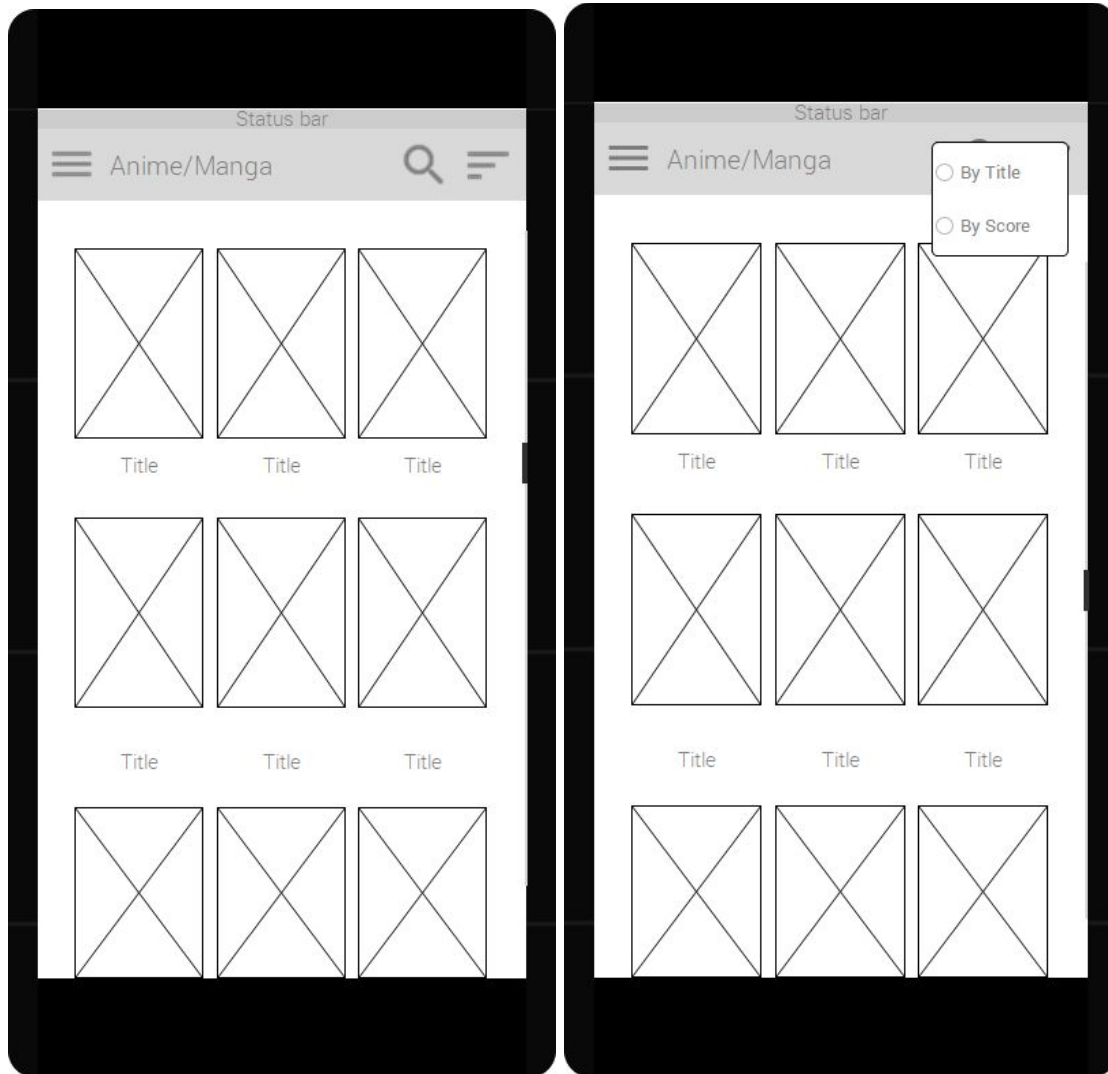
## User Interface Mocks

### Login Screen



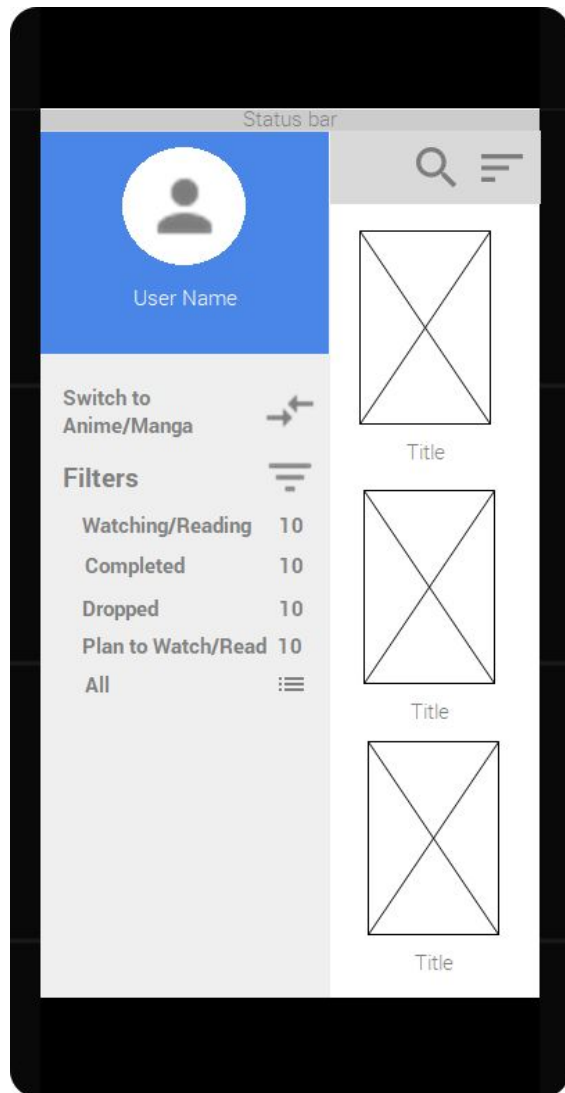
The user can either use his MAL's account email and password or login with Google (MAL accepts Google login).

## Anime/Manga List Screen



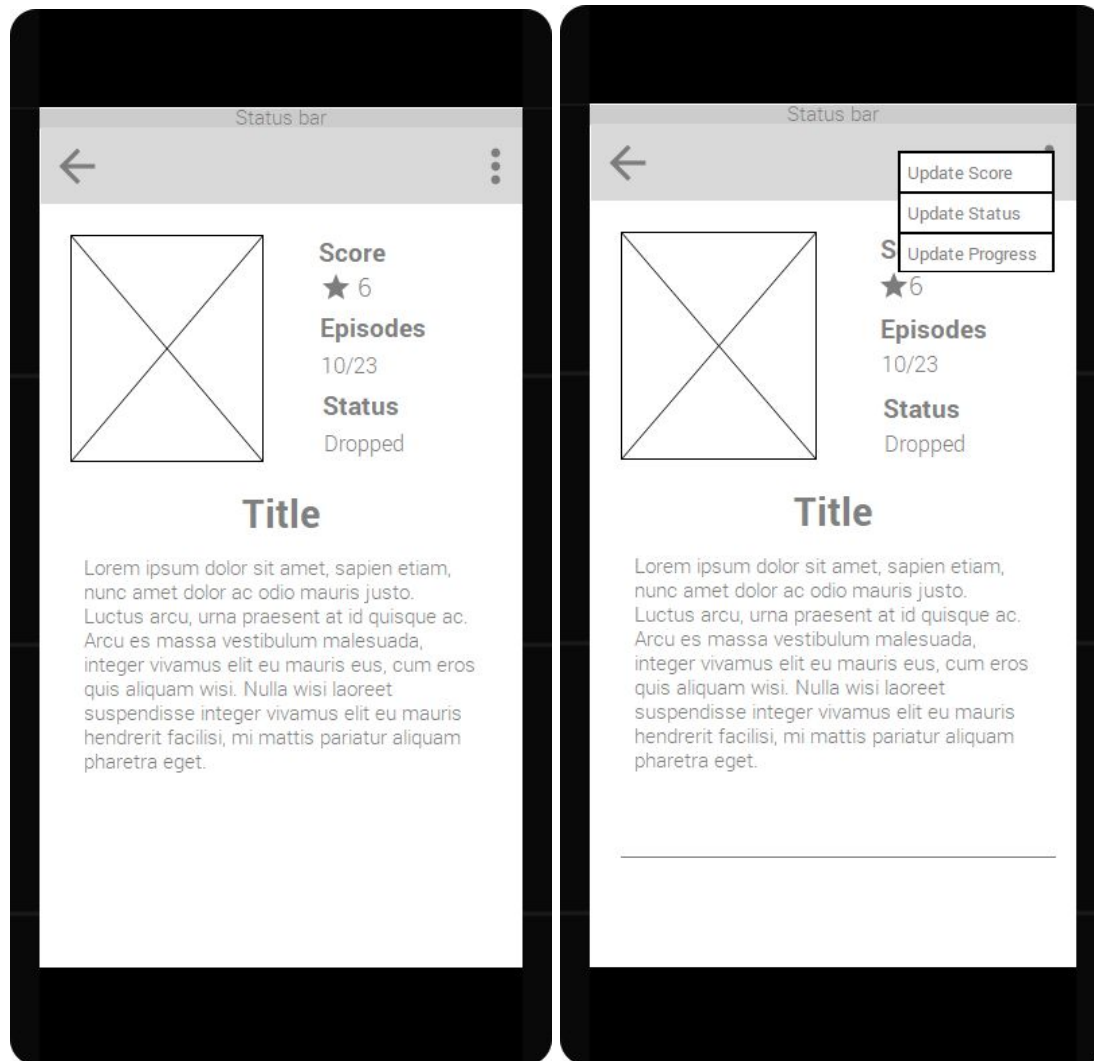
- There will be a similar screen for anime and manga, but each will be in their own screen.
- Here the user will see the list of all animes and mangas added on MAL social network..
- The user will be able to order the list alphabetically (by title) or by score by clicking on the sort icon on Action Bar. The default will be by title.
- There will be a possibility to search anime and manga by clicking the icon on action bar

## Navigation Bar



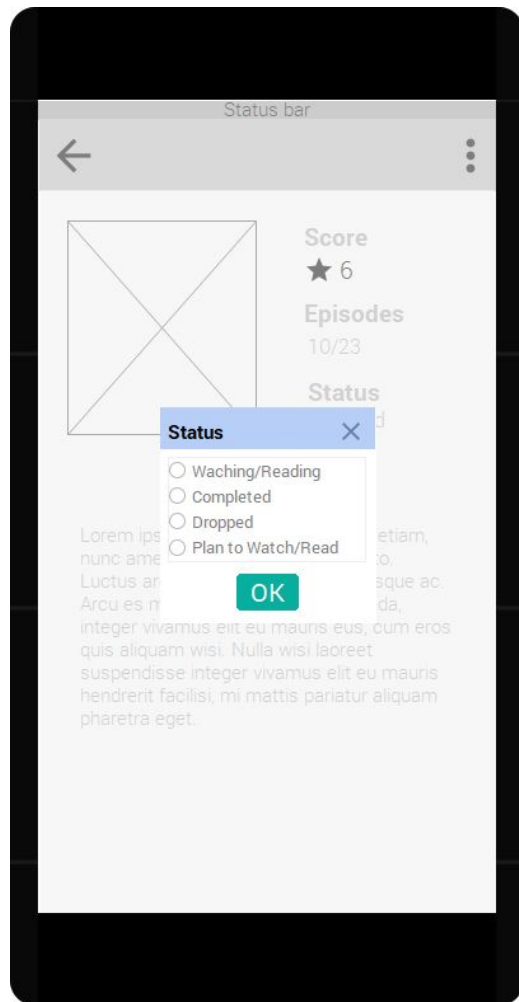
- Here there will be the profile picture and user name of the User.
- On the Navigation bar there will be a button to switch the list that appear on the List Screen between anime and manga.
- Here the user can also choose some filters on the list or no filter at all (no filter will be the default).

## Anime/Manga Detail Screen

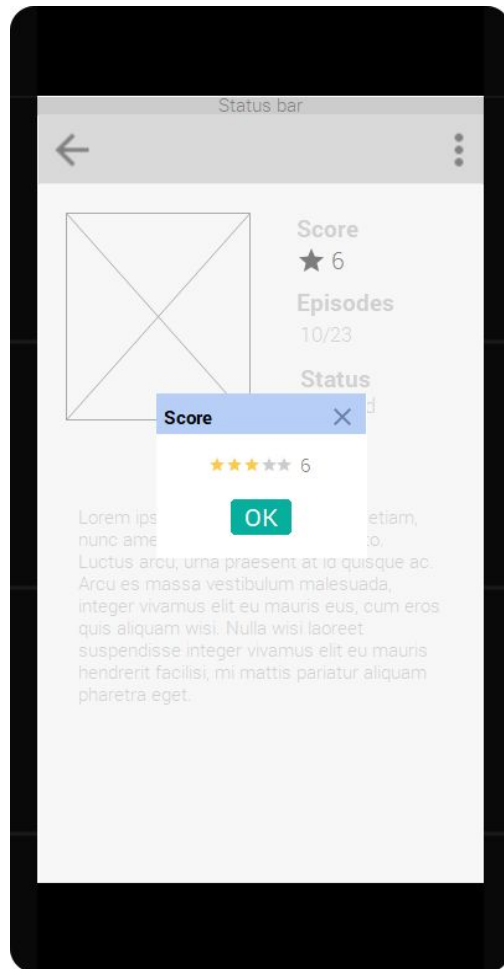


- This screen shows some details from the Anime, like your score, how many episodes the user watched and it's status, the anime poster, title and a small description of the anime.
- On the menu, there will be options to update the status, update score and update progress.
- The text Episodes will be changed to Chapters if it is a Manga.

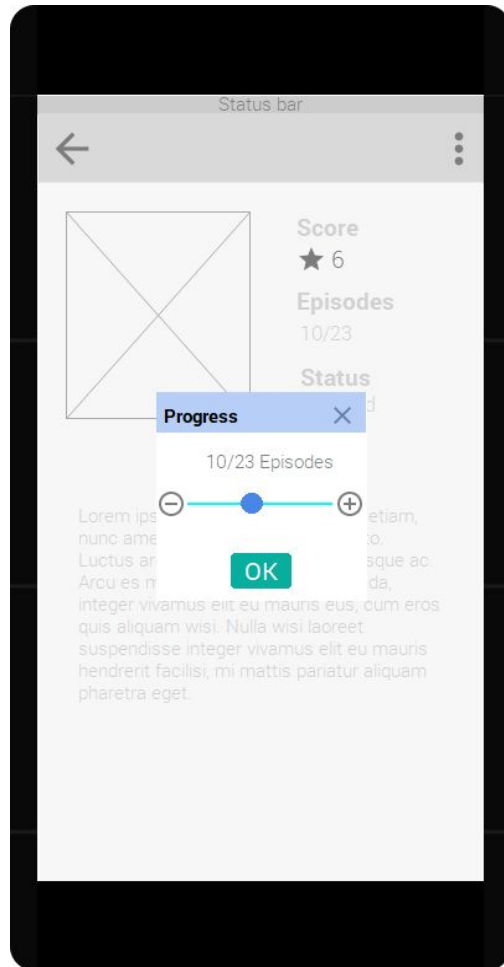
## Anime/Manga Detail Screen Dialogs



- Status this is the Status dialog.
- The User will be able to change the status of the anime/manga selected



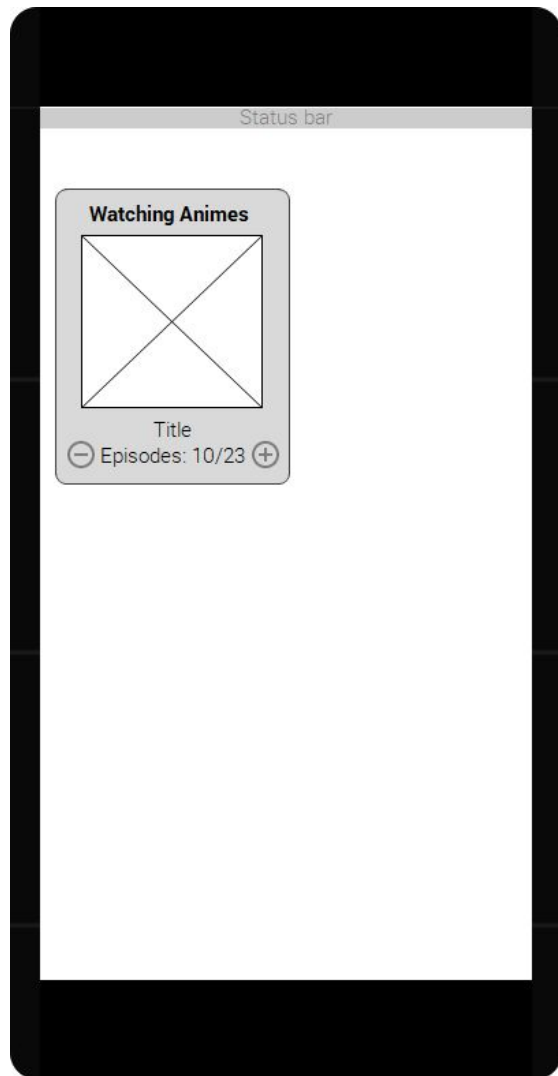
- This is the Score dialog.
- The User will be able to give a score to the select anime/manga using the android rating bar component.
- The number will appear beside the rate to be even easier to understand



- This is the Progress dialog.
- The User will be able to set how many episodes/chapters was seen using the android slide bar component or the plus and minus buttons for increase or decrease of one episode/chapter.



## Widget



- There will be a widget for anime and another similar for manga
- It will show the animes/mangas from the 'Watching/Reading' list only (order by title).
- It will show only one anime/manga at a time, and a swipe gesture will bring the next anime/manga from the list.
- It will show the anime/manga poster, title and the number of episodes/chapters seen.
- The User will be able to update the progress by clicking on the buttons 'increase' or 'decrease'.

## Key Considerations

How will your app handle data persistence?

A local database and a content provider will be built to handle offline queries and sync with My Anime List database when online.

When the user looks at his or her information (for example enter the Detail Screen of an anime/manga), if user is online, this information will be retrieved from My Anime List API and its data will be used to update the local database data (if needed), if the user is not online, the information will come from local database through Content Provider.

Any change made by the User (for example, increase the progress of an anime or manga) will be saved locally, if the user is online, the change will also be made on My Anime List database online through its API.

If the user is offline, a Job Scheduler will be created to sync the My Anime List database according to the local database.

### **Describe any edge or corner cases in the UX.**

- The Navigation Bar will be accessible from both List Screen and Detail Screen.
- On List Screen, by clicking on the Search Icon, a text input field will appear on action bar and the user will be able to search from there.
- The widget will have a fixed size.
- All texts will be written using Android Internationalization pattern (using strings.xml resource file).
- For tablet the Navigation Bar layout will be fixed in the right side of the screen and the List and Detail Screen will appear on a frame in the left side of the screen, which will be bigger than the right side.

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

Picasso to handle loading and caching of images.

Retrofit to handle request to My Anime List API.

SimpleXML to handle XML responses in XML.

Butterknife to handle view binding and avoid verbosity.

Espresso to handle UI testing

### **Describe how you will implement Google Play Services or other external services.**

The app will have an option to Authenticate with Google, and this authentication is handled by Google Play Services and Firebase.

## 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 android project
- Create project on Firebase and configure it
- Create entities
- Configure retrofit to read MAL's API

### Task 2: Implement UI for Each Activity and Fragment

- Create the LoginActivity
- Create AnimeMangaListActivity
  - Create AnimeMangaListFragment
  - Create AnimeMangaListAdapter
  - Adapt Adapter to refresh list according to the filters, if any.
- Create Navigation Bar
- Create AnimeMangaDetailActivity
  - Create AnimeMangaDetailFragment
- Adapt activities and fragments to tablet layout

### Task 3: Internationalization

- Make the app available on both English and Portuguese (Brazil).

### Task 4: Test

- Create UI tests using espresso.