

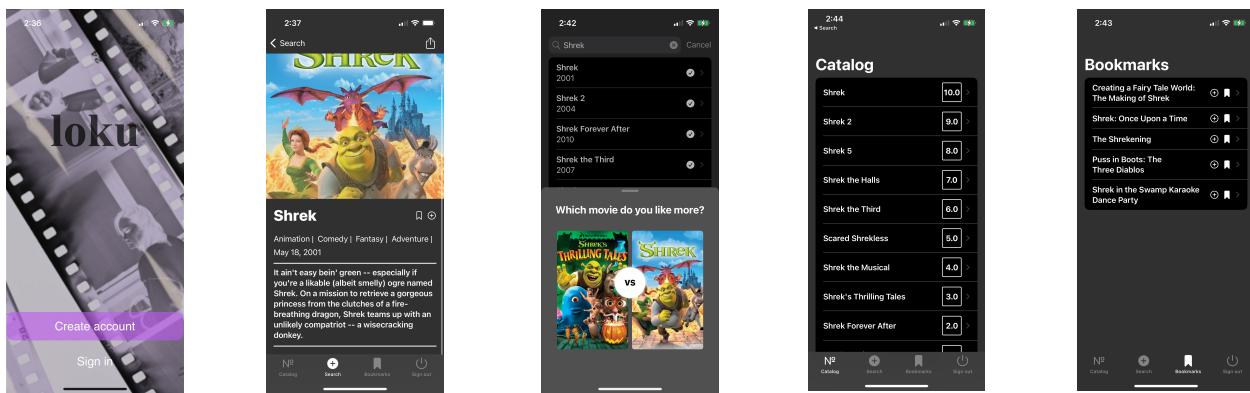
MARKETING MATERIALS

Category: Entertainment

Description: Discover how much you actually like a movie! Compare movies against movies you have already watched and see where they fall on your list. Bookmark movies to watch, and keep track of your ever growing catalog.

Keywords: Movies, tracking, ranking, rating, films, comparing, record, recording, rank, rate

Screenshots:



Age Group: 12+

EXECUTIVE SUMMARY

Loku is for tracking and ranking movies. Existing rating systems (e.g., star ratings, rating out of 10) are arbitrary. Loku helps users compare movies relative to movies they have already watched to understand where it falls on their list. No two movies can have the same ranking as ranks are determined based on position in an array. Loku determines the position of a movie using bisection search. The rating process always starts at the middle of the catalog, and moves through the array just as a bisection search would. If the new movie “wins” a match up, Loku shows the movie at the middle of the upper half and vice versa. Every movie to be added goes through $\log(n)$ match ups, where n is the length of the existing catalog.

To create and authenticate unique user accounts the app uses Google's free Firebase platform. The app utilizes CocoaPods to install and manage the package dependencies. When a user creates an account, his or her information is saved to a Firebase database that is linked to our project. The FirebaseAuth package allows the app to seamlessly detect if a user's login credentials are valid once the account has been created.

The app relies on data from TMDB. When users search for a movie, the API is called and movie entries are added to the catalog or bookmarks based on user actions. Catalogs and bookmarks are persisted through user defaults.