

# Project 1 Requirements

Group 14

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## 1 Use Cases

Services	Role	Functionalities
Normal	Any	User Log in User Sign in Search for username See Book, Show and Movie Library Get top 10 Items with more likes
	User	Set Book/Show/Movie as seen/unseen Set Book/Show/Movie as liked/disliked Ask for suggestions to read and/or watch Delete account
	Admin	Add Book/Show/Movie to Library Remove Book/Show/Movie from Library
Spark	Any	See best Director in terms of rating* See which worker has the most connections

Table 1: Seen's Use cases\*at least with 10 movies and 10.000 reviews in each

## 2 Preliminary Functional and Non-Functional Requirements

**SPARK note:** For the first Spark request we use a complex SQL query, for the second request we use a graph approach, which fix very nicely to the Spark capabilities.

## 2.1 Functional

- Any person should be able to sign/log in with a new account.
- Any person should be able to search for a username
- Any person should be able to browse Books, Shows and Movies.
- Any person should be able to search for a specific item by name, type and/or categories.
- Any person should be able to get the top ten liked items
- User should be able to mark an Item as seen/unseen.
- User should be able to mark an Item as liked/unliked.
- User should be able to ask for suggestions.
- Admin should be able to add and remove content from the library.
- **(Spark)** User should be able to see who's the best director and the worker with most connection with other workers.

## 2.2 Non-Functional

- Browsing Items shouldn't take more than 1.5 seconds to load.
- Searching shouldn't take more than 1.5 seconds loading the response.
- Marking Item as seen or liked shouldn't take loading time on Users' end.
- Suggestions shouldn't take more than 5 seconds.
- Data stored in cache shouldn't affect the system.
- Adding and Removing Items should persist on the database.
- **Spark** request should not return error.
- **Spark** should and take less than 10 minutes.

### 3 Preliminary Architectural Design

