System Requirements organized by subsystem:

*** = Minimum Viable Product

** = Higher Priority

* = Lower Priority

(Note: Top headers' (identified in **bold text**) *s apply to all embedded listings underneath it. An embedded listing with a different number of *s is reclassified differently from the header)

NOTE:

BLUE = Completed into the final deliverable project

YELLOW = In-Progress/Half-complete/few things done

RED = Not Touched upon at all yet

1. *****Movie Recommendation and Search**
    1.1. The user should be able to see what movie recommendations are presented at the home screen based on previously defined interests in their profile (see 2.2).
        1.1.1. *Refreshing the home page should also display a new list of recommendations; previously viewed items will be removed from the list.
    1.2. Irrelevant movies that were already watched or had been disliked will be removed from future recommendations (see 2.2, and 1.5).
    1.3. A list of new and upcoming movies should be displayed on the home screen to allow all users to be aware of what's to come (see 5.1).
    1.4. The user should be able to find movies by:
        1.4.1. Clicking on a movie from a displayed list (see 4).
            1.4.1.1. List of recommended movies
            1.4.1.2. Personal movie list
        1.4.2. Searching up a movie from the search box (see 4.1).
        1.4.3. *Clicking on a link shared from another person that will direct them to the movie information that was shared (see 3.1, 3.2, 3.3).
    1.5. The user should be able to mark movies as watched, favorited, and disliked.
        1.5.1. A subfolder for each watched, favorited, and disliked selection will be made in the personal profile to store the list of movies in an organized way based on user selections. (see 2.3)

2. ****Customization & Personal Profile**
    2.1. The user should be able to create accounts whether it be for personal or for family and friends under one main account.
    2.2. ***The user should be able to customize their favorite aspects of a movie to optimize their search in their profile (not a complete list):

   2.2.1. Options to choose a favorite movie genre.
   2.2.2. Ability to choose a favorite movie actor.
   2.2.3. Ability to choose a favorite franchise.
 2.3. The user should be able to organize movies based on whether it has been favorited/saved, disliked, watched, and priority queue.
   2.3.1. A favorite or saved subfolder is intended for viewers who like to rewatch their favorite movies they already previously watched.
   2.3.2. The disliked subfolder allows viewers to find a list of movies they marked as disliked.
   2.3.3. The watched subfolder should include the movies that are marked as saved, disliked, and other movies that were previously viewed with no other special marks from the user.
   2.3.4. The priority queue is a list of "must-see" shows, blockbuster movies, or any films the user wants to watch ASAP.
 2.4. *The user should be able to receive notifications, for example by email, of whether a new movie they are or may be interested in has come out.
 2.5. *The user should be able to specify and set reminders for when they should return back to watch a show or movie they are interested in for another time.

3. ***Social**
 3.1. The user should be able to share a movie selection by link through either text, email, and social media.
 3.2. The user should be able to read reviews/ratings and create reviews/ratings.
 3.3. The user should be able to comment on movies and also view comments.

4. *****UI**
 4.1. The user should be able to quickly search up a movie.
   4.1.1. The user should be able to search movies by genre, keywords, actors, directors, etc. (**Note**: **Actors, keywords, etc can be easily added to the search, but due to time constraints, it is not in the final product. TV and Movie titles made it to the search | Kobe December 3, 2020**)
 4.2. The user should be able to add movies to a list of watched movies.
 4.3. The user should be able to pull up a list of their watched movies.
 4.4. The user should be able to quickly navigate between movie pages.
 4.5. The user should be able to easily look at their profile.
   4.5.1. The user should be able to edit their profile
 4.6. The user should be able to log out of their account

5. *****Organization**
 5.1. The user should be able to see a page of info for each movie.
 5.2. The user should be able to see the movie's ratings and reviews on the movie page.
 5.3. The user should be able to see related movies.
 5.4. The movie selection should have details about the movie like the plot, actors and directors, trailers, etc. (Note: actors, directors, and trailers could easily be implemented, but due to time constraints and initial api-link that is limited in relevant data structures prevented them from being added to our pop-ups).

Instead of only having the minimum viable product, we additionally classified categories as higher and lower priorities of system requirements.We took out 1.1.1 and 1.4.3 as part of the MVP and changed it to lower priority because it was one step up from the core idea of our product; something nice to have but not necessary to the build. We also added 1.4.1.1 and 1.4.1.2 to make 1.4.1 more clear. Although 2.4 and 2.5 are part of Customization and Personal Profile which is labeled as high priority, we chose to label 2.4 and 2.5 as low priority since it is an extra feature for our product and not necessary based on our personas.

Furthermore, suggestions from Phase 3 were incorporated. Point 2.2 and all of point 5 have been reclassified as a MVP. Point 1.1.1 has clarified that previously viewed movies will be removed from future recommendation lists. 2.3 has been expanded to clarify any confusions between the subfolders saved, disliked, watched, and priority. Point 3.4 has been removed from 3 down to 5 for misplacement and redundancy reasons.

Final MVP Updates until December 4, 2020

What did we miss?

Our recommendation system does not take into account all of the user decisions which will make their experience more personalized, meaning genres and movies the user likes, dislikes, or already watched will not be taken in consideration in our recommendation system. This aspect was not finished on time because of each group member's individual time constraints and other commitments as well as limited knowledge of the technologies at hand. Furthermore, we needed other features done first like the "liked", "disliked", and "watched" subfolders in the MyList tab before we can get to the personalized features. Personalization features would have required a lot of coordination and work from Sam, who worked on the database aspect of the project. Because we were not knowledgeable in the new technologies and did not plan well in the beginning, we did not realize how much more effort we needed to put into learning the database and less effort into the frontend. Unfortunately, we only have a basic and generalized usable user list that has no impact on how movies are recommended. To compensate, we do display a selection of genres and the user can search up almost any movie or show they like to learn more about them in this early movie system.

The social aspect (sharing links, commenting, rate movies, etc) was given lowest precedence in what we needed done because we wanted the recommendation done first. User customization of their profile like genres (discussed before), profile pictures, family members (account sharing), etc. was not incorporated as well as they are also lower priority features.

The notification and reminder features were disregarded as well because they were not key components of the MVP at the stage we were at, they should have been removed from the MVP at an earlier step.

Some bugs or issues we encountered were to make the website more responsive to changing screen sizes, a missing logout button in said smaller screen sizes, the NavBar not disappearing at login, etc.