

<Requirement Documents>

System load and provide a list of Videos/1.1

Function : System load , provide list of videos

Description : Provide basic video list after system load

Inputs : Videos stored in the database

Source : None

Outputs : list of randomly generated movies from database

Destination : None

Action : There is no information about the logged-in user yet, so 30 videos stored in the database are randomly selected and listened to the user.

Pre-condition : user is log-in.

Post-condition : system randomly presents 30 videos.

Side effects : none

Taking a list of preferred videos for a new user/1.2

Function: Take a list of preferred videos from a new user

Description: Make the video list that the user prefers from the video list selected at random

Inputs: randomly selected list of videos

Outputs: list of preferred videos

Destination: (not decided)

Action: the system displays the randomly selected list of videos on the screen and lets new user select whatever they want. Selected videos become an output list.

Pre-condition: At least 30 different videos are in input list of video

Post-condition: new user has to select minimum one videos or more

Side effects: user may not have a preferred video because video list is showed randomly.

Finding a list of relevant videos/1.3

Function : Given the list of preferred videos, the system shall find a list of relevant videos.

Description : Refer to genre tags of each preferred list of videos, filtering videos from relevant video list

Inputs : preferred videos

Source : None

Outputs : relevant videos to preferred videos

Destination : None

Action : select a genre using a list of preferred videos and make a list related to the genre. The criteria for determining whether or not it is a relevant video are as follows. Each video class has n hashtags as members. By identifying the hashtags of the preferred videos, films that are not included in each hashtags are determined to be not preferred, filtered, and the remaining films are listed.

Requirements : Preset hashtags per movie

Pre-condition : at least, one genre should be selected as the preferred genre.

Post-condition : any video that meets the conditions must be made into a relevant video list.

Side effects : none

Ranking the relevancy and provide the ranked list/1.4

Function : Rank the relevancy and provide the ranked list to a user.

Description: According to the list of relevant videos, rank the relevancy among those videos and provide the ranked list to user

Inputs: List of relevant videos

Outputs: ranked list

Destination: None

Action: In the relevant list, similarities are judged and scored based on genre, actor, and director. We use a hashtag system to help determine similarity. Categorized the characteristics of videos into specific hashtags. By checking the degree of hashtag matching between movies, the higher the score, the more relevant video. Based on this score, the ranked list is create.

Pre-condition: At least the list of videos contains 10 different movies or more

Post-condition: None

Side effects: None

Search Videos/1.5

Function : Search video, provide a list of videos containing the search terms.

Description : Provide a list of videos containing user's search terms. Search terms are searched for the title.

Inputs : User's search terms

Source : None

Outputs : list of videos containing user's search terms.

Destination : None

Action : When a user clicks the search window, it shows up to 10 previously searched search history. User start typing a title for the video user wants to find, user won't see own search history. When showing the search results, it displays all the videos containing the user's search terms in a random order.

Pre-condition : enter at least 2 characters of search terms.

Post-condition : must show all videos with titles containing search terms.

Side effects : none

Add a video into the wishlist/1.6

Function : A user can add a video into the wishlist

Description: Among the movie's info that an user is watching, A user can add into the wishlist by clicking the wishlist button

Inputs: A user clicks the wishlist button

Source : None

Outputs: the Updated wishlist

Destination : None

Action: Among the videos that a user search for or appear in the recommended list. a user want to add the video into wishlist. A user can input the video by clicking the wishlist button. This wishlist can see at the wishlist tap in a home. a user can add a video without limit. Anywhere a user can remove the video in the wishlist by clicking the remove wishlist button.

Pre-condition: At least, there is one video that a user can add to the wishlist.

Post-condition: Save the wishlist's state

Side effects : none

Adding a video to the system/2.1

Function : Add new videos to the system.

Description : The system manager adds new videos to the system.

Inputs : Videos

Source : None

Outputs : Current video list in the system

Destination : None

Action : The manager who manages the system adds a new video to the list. After this, it will show you a list of all the videos currently on the system so manager knows that a new video has been added.

Requirements : Video to add.

Pre-condition : Log in to the system with administrator privileges.

Post-condition : There should be videos added to the list of videos in the system.

Side effects : none