**MovieRecommendationWebService/provideMovieInfo()**

Function

Provide edited movie recommendation list from user’s recommended movie list

Description

Provide users recommended movie list based on user’s preferred genre and movie genre score.

Inputs

Recommended Movie List(in form of int value as Id.)

Source

None

Outputs

Boolean value in relation to successfully recommended movie list is printed or not.

Destination

None

Action

Get movie list from user first. This list contains movie’s Id. By matching movie’s id to movie data, Find recommended movie’s information and print out this information. If these process is successful, method return true. If there is error to print out, method return false.

Pre-condition

None

Post-condition

None

Side effects

None

**MovieRecommendationWebService/askPreference()**

Function

ask preference

Description

Ask users about their preference about movie. Let them choose their preferred movie in list. And compute user’s preferred movie genre score matrix .

Inputs

User’s preferred movie.

Output

System tells rather it is saved well or not (Boolean)

Source

None

Destination

None

Action

If the website ask users to choose their preference. Function computes each movies’s genre score and make matrix about user’s preferred genre score matrix. This matrix is for recommending for movies. This matrix contains scores of preference for each genre.

Requirements

Users need to choose large enough movies to get more precise recommendation

Pre-condition

None

Post-condition

None

Side effects

None

**MovieRecommendationWebService/matching()**

Function

matching

Description

After computing user’s preferred genre score matrix, with it, Compute list for recommending movie.

Input

User’s preferred genre score matrix

Output

To tell List of movies which this program recommends, are well returned or not

Source

None

Destination

None

Action

In user’s preferred genre score matrix, We compute score for the movie. We assume that there are each genre scores for movie. For example, A movie has 10points for action, 0 points for romance. After combining score (computing score), This function make list for recommendation.

Requirements

Precise user’s preferred score matrix.

Pre-condition

None

Post-condition

None

Side effects : None