CONTENT

INTRODUCTION

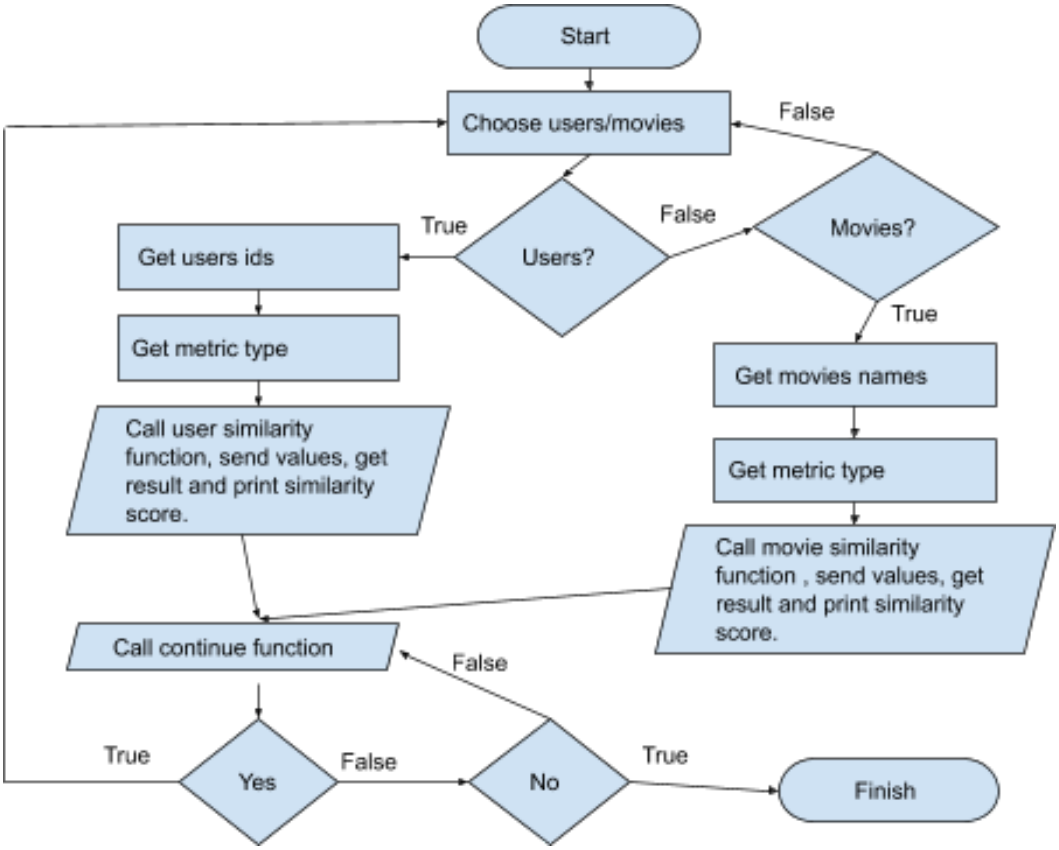
In this project, a recommendation systems is designed and analysed, a solution based on the concept in the module is implemented.The recommendation engine working with the circle datasets is delivered to analyse design and implement the system.This system provides the capability to suggest interesting item and not suggest the uninteresting items based on users past activities..Metrics are designed for computing the similarity scores .Suitable module are created for retrieving data from the provided-data sets.Five functions that compute the similarity score between two users are designed and implemented. A function that computes the similarity score between two movies is designed.

Main Function Pseudo Code

```
main function :
        get input
        convert input to lower case
        if input is users
                get first user id
                get second user id
                get metric type
                go to user similarity function,send inputs,get similarity score and
                print similarity score
                go to continue function
                get input
                if input is yes
                        go to main function
                else if input is no
                        exit the program
                else input neither yes or no
                        go to continue function
        else if input is movies
                get first movie name
                get second movie name
                get metric type
                go to movie similarity function, send inputs, get similarity score and
                print similarity score
                go to continue function
                get input
                if input is yes
                        go to main function
```

else if input is no
exit the program
else input neither yes or no
go to continue function
else input neither users or movies
go to main function

Main() Function Control Structure



User Similarity Function Pseudo Code

user similarity function :
get user preference dictionary
convert metric type is data to lower case
if metric type euclidean
go to euclidean function, calculate similarity score between two users and return it
else if metric type is manhattan

go to manhattan function, calculate similarity score between two users and return it to main function

else if metric type is cosine

go to cosine function, calculate similarity score between two users and return it to main function

else if metric type is jaccard

go to jaccard function, calculate similarity score between two users and return it to main function

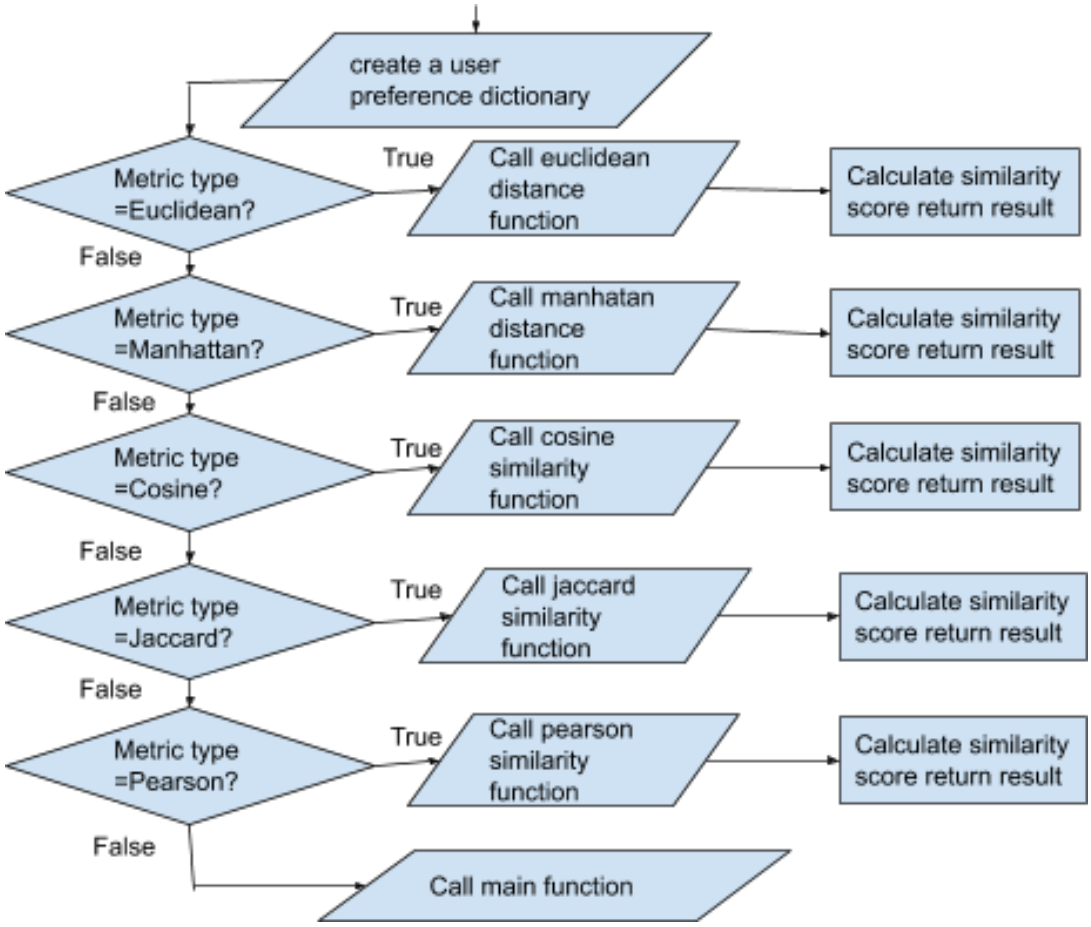
else if metric type is pearson

go to pearson function, calculate similarity score between two users and return it to main function

else metric neither of these five

go to main function

User Similarity() Function Control Structure



Movie Similarity Function Pseudo Code

movie similarity function:
    get movie dictionary
    convert metric type is data to lower case
    if metric type euclidean
        calculate similarity score between two users and return main function
    else if metric type is manhattan
        calculate similarity score between two users and return main function
    else if metric type is cosine
        calculate similarity score between two users and return main function
    else if metric type is jaccard
        calculate similarity score between two users and return main function
    else if metric type is pearson
        calculate similarity score between two users and return main function
    else metric neither of these five
        go to main function

Movie Similarity() Function Control Structure