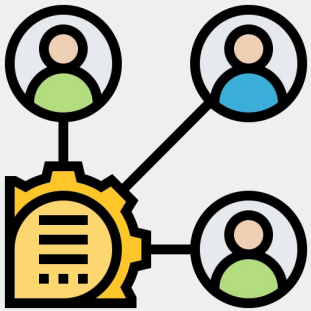
REC 2020

By: Adnan.H, Farwa.M, Isha.C, Mohammed.Z

Design Problem

Problem

Create a recommendation search engine that would take user information as an input and output a list of the top 5 movies that the user would potentially enjoy.



Stakeholders

Employees and company owners, more specifically the project managers/engineers at Netflux who are maintaining and updating the engine,

Investors and partners that are invested in Netlux's growth,

The customers using the Netflux search engine.

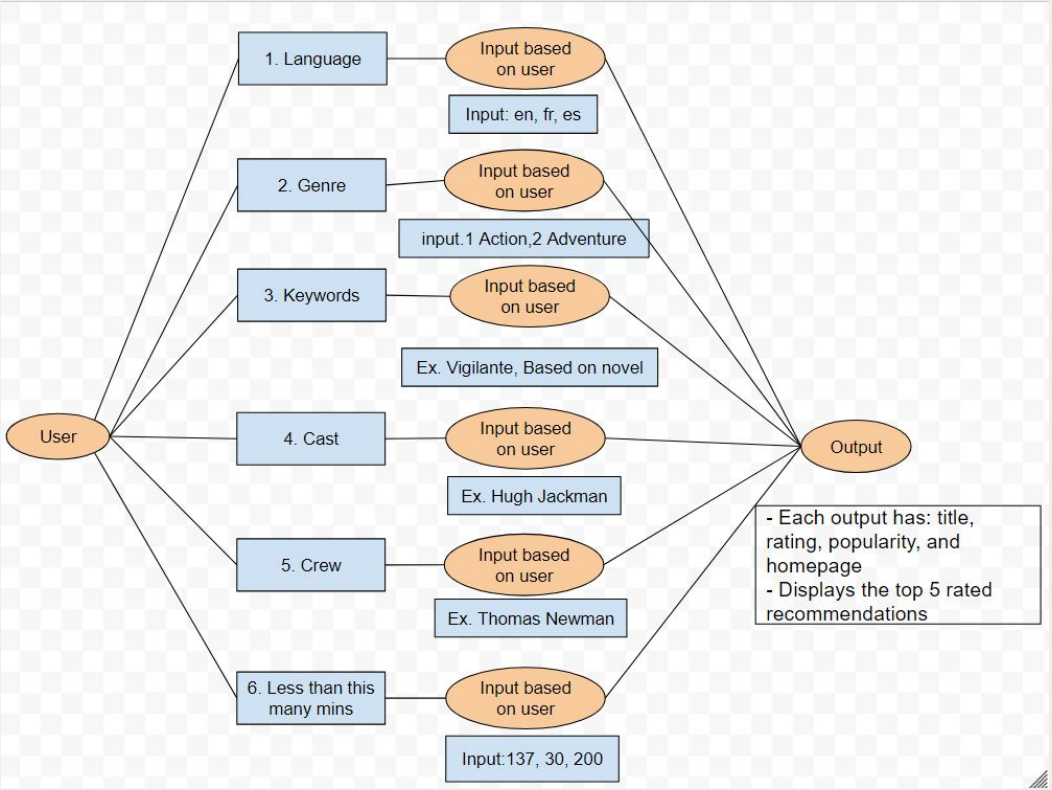
DEMO

Demonstrate the solution

Code Overview

Walkthrough of implementation

High-Level Overview of Design Solution



Design Process, Management process, and Development process

DESIGN PROCESS

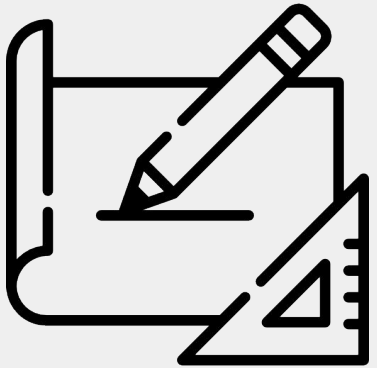
We planned out what we wanted as the output and input and how our program would work

Management Process

We used the first 30 minuted to organize the material, design,plan and download the required files. We also gave ourselves one hour for the writing of our report and presentation.

DEVELOPMENT PROCESS

Implemented the planned design efficiently in the time that we had set for ourselves. Our code works efficiently and solves the problem.



Additional Features

Optimize search engine

Increase the number of categories that can be filtered to make the process for recommendations more precise

Output using a csv file

The assignment requirement mentioned it would be ideal to have the output on a csv file so that would be an additional feature we would include

Incorporate algorithm to loop code

The program cannot be run more than once so a loop would allow errors to go through recommendations many times

Core Functions of Software/Program's Components

Panda library

We used the Panda library to access the csv files

Dropna Function

We used the dropna function to drop any null values

Sort Function

The sort function was used to sort the final values into ascending order

Explode Function

The explode function was used to list-like rows into indexed values.

Loc Function

The loc function was used to group the values by values/conditions