

PCL (Content Recommendation Engine)

Requirement Specification

Requirements and Use-case model



Specific Requirements

User Interface

We only implement a simple user interface for showing system recommendations.

This user interface gives a chance to display recommendations before integration of web-service and existing music streaming and downloading web application. In the main system, the user logs in first and starts searching and downloading movies which are created by our recommender web service's data. Therefore, Output of our recommendation system is shown in integrated main web application's interface.

FUNCTIONAL REQUIREMENTS

This section encapsulates the major software functions and data flow among the participants of

the system. The participants include the user and administrator, the user makes use of the system, recommendations and search. The administrators are the developers and handlers of the system i.e this project.

The functional requirements are listed below with a use case diagram.

- To have a relational database system of movies with relevant attributes
- To have a interactive web-app based system to add content to the database
- To be able to search for content
- To edit or remove content and its attributes through the web-app
- To have a web-scraping program to collect information on a target and export it to a csv or excel file
- To have in intuitive catalog of all content on the web-app
- To have a filter feature for a specific search query
- To have integrated web-hooks for posters
- To have structured format for every content piece's attributes placed into categories and subcategories
- To quantize above attributes and have fixed weightage for these parameters (also determine which of these would be optional)
- To register administrator accounts for the web-app

- To register user accounts
- To have a sign in/ account dashboard
- To have a user-preference survey after the welcome message
- To be able to log watching activity
- To add upvote or downvote (preference) to any listing
- To have automatic sorting of movies based on genre
- To generate feedback/user log files to send to developers

