Matrix Movie Manager

Initial Requirements

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Sunday, April 24, 2016

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# Introduction

This document contains a summary of system requirements for the Matrix Movie Management System. The requirements section is broken into two main parts, functional and nonfunctional requirements. Functional requirements are meant to capture all operations the system must be able to perform while non-functional requirements are important aspects of the system but are not visible to the operator.

# Functional Requirements

The area of functional requirements describes operations the system is intended to perform. These operations are captured as short statements; each statement intended to describe a single behavior. These statements are grouped based on similarity. The groups are called functional areas and encompass functional modules to be treated as individual efforts in development, testing and deployment.

Functional Requirements are prioritized as follows:

* H-A : High Priority, Architecture – These requirements are mandatory for architectural integrity of the system technical operation.
* H : High Priority – These requirements are part of system basic operation. Without these requirements, the system cannot be considered operational.
* M : Mid-Level Priority – These requirements are necessary for a final delivered system. The system will function without these operations; however, it may not be useful from and end user perspective.
* L : Low Level Priority – These requirements are items that would be nice to have implemented but do not add to necessary functions for end system implementation.

## Matrix Movie Manager

These are that functional requirements relating to the Matrix movie manager

1. There will be a catalog style interface
   1. Movies will displayed in a grid
      1. Movies in grid will be displayed by Cover Art
      2. Grid will be scrollable
   2. Movies will be selectable
      1. Selecting a Movie will bring up a side display
         1. Side display will show Information about a movie
            1. Title
            2. Actors
            3. Summary
            4. Runtime
         2. There will be a options area
            1. Options area will allow for open in local folder location
         3. There will be a play button in the side display
            1. Play button will launch the appropriate video player for the format
            2. After Video playback is completed or ended the User will be prompted for rating the movie
   3. Movies will be searchable
      1. By Title
      2. By Actor
      3. By Genre
      4. Runtime
      5. Personal and Critic Rating
      6. Recently added
      7. Recently viewed
2. There will be a suggest a Movie feature
   1. Will suggest a movie based on the 5 previously viewed movies
3. There will be a previously viewed catalog
   1. Will catalog all of the movies watched by the user through the program
   2. Data will be used for suggested movie feature
4. User will be able to search for information about new or unowned titles
   1. Search will be done through IMDB
5. User will be able to quick search through local catalog to find out if a movie is owned
   1. If the movie is not owned, the program will ask the user if they would like to view the information page about the searched movie
6. User will be able to define locations of local collection folders
   1. User will be able to select folders from separate drives

# Non Functional

The area of Non-Functional requirements contains statements driving system implementation areas not considered to be directly related to operational behavior. These will be items that drive construction and platform details.

## Platform

These requirements are related to underlying computer technology for supporting of the end system.

1. Server Side Platform.
   1. System will run on a windows platform.
   2. The system will be written in C#.
   3. The database will be implemented on a freely distributable SQL platform (SQL LITE).
   4. Movie information will be pulled from a movie information database

## Performance

These statements are related to minimum and maximum criteria for system speed and metrics related to system efficiency and operation.

1. System should never have data collection of load times more than 5 seconds
2. System should allow for any file sizes to be used
3. System should allow for standard video formats to be used

## Communication

These requirements detail implementation and underlying support for digital communications for interlinking the system to other digital systems.

1. System will locally handle movie management with the exception of retrieving new information.
2. System will scan for changes of the local collection folders on launch.
3. System will use a secured internet connection for information retrieval.
4. System will retrieve information (including Cover art, actors, critic rating, summary, genre, release date ) from OMDb and store it on a user specific private database that will be used as storage for movie meta information (including Cover art, actors, critic rating, summary, genre, release date, personal rating, date added to collection and date last watched ).