**Problem Statement**

CSCI-1260-001 Project3\_MP4\_Tracker

**List of Inputs, Outputs, and Processing Required**

INPUTS

* Users name
* Menu Options
* File Path for a playlist of songs
* Name of Playlist
* Who created the playlist
* When was the playlist created
* MP3 Information
  + Genre of music
  + Title of the song
  + Artist
  + The release date of the song
  + Length of the song
  + Download cost
  + File size
  + Image Path(where does the song image come from)

OUTPUTS

* Welcome message
* Ask user for their name
* Menu Options
* Ask user for the name of the playlist
* Ask user for the creator of the playlist
* Ask user for the date the playlist was created
* Ask user for the file path they would like to save their playlist to if they have created one or changed one
* Exiting message

PROCESSING

* Stores the user inputs for their mp3 file so that if the user decides to display a file it will display their inputs into the ToString and will display an exiting message with the user’s name that was stored previously along with the stored user inputs for the name of their playlist, creator of the playlist and date it was created.

**Identification of Classes and Their Responsibilities**

**Class name: Genre**

Responsibilities:

* Represents the genre of music and makes them an Enum and sets the first value equal to one.

**Class name: MPThree**

Responsibilities:

* Creates the public class that is used in the driver class
* Creates the attributes and does the getters and setters for the class
* Creates the Default constructor and sets the attribute values to default values
* Creates the Parameterized constructor and sets the values to be stored
* Creates the Copy constructor and makes a copy of the existing MPThree
* Creates the ToString method and formats it to an appropriate display look

**Class name: Playlist**

Responsibilities:

* Creates the public class that is used in the driver class
* Creates the attributes and does the getters and setters for the class
* Creates the Default constructor and sets the attribute values to default values
* Creates the Copy constructor and makes a copy of the existing playlist
* Creates the Parameterized constructor and sets the values to be stored
* Creates the method to search for a song in the playlist by title
* Creates the method to search for songs in the playlist by genre
* Creates the method to search for songs in the playlist by artist
* Creates the method to sort the songs in the playlist by song name
* Creates the method to sort the songs in the playlist by release date
* Creates the method to add a song to the existing playlist
* Creates the method to drop a song from the existing playlist
* Creates the method to edit a song in the existing playlist
* Creates the method to fill the playlist from a file entered by the user
* Creates the method to save to a file if the user so chooses too based on creating one or changing one
* Creates the ToString method and formats it to an appropriate display look

**Class name: MPThreeDriver**

Responsibilities:

* Displays a welcome message
* Asks the user for their name and stores it
* Creates and uses the Menu method
* Creates a DisplayMenu method that is used inside the Menu method
* Creates the MPThree NewMPThree method which asks for users input and stores them so it can be used in the ToString to create the MPThree to be added to the playlist

**UML Class Diagram**

Diagram

Description automatically generated

**Algorithms**

There were no algorithms for this project.

**Test Cases**

The test cases are in an Excel document that is located within the zipped folder. These are also screenshots of the Excel document that splits the document into two parts.

Table

Description automatically generated

Application

Description automatically generated with low confidence