**Programming Project**

**CD´s Store**

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In the principal window there exists a login that works for when the administrator wants to realize some modification, elimination or simply to add a type of disc whether is of music or movie and also for the users who want to buy some disc. If he is an administrator what it must do is to place the name, to place the password and to mark the cabin that administrator says in order that it could enter only to the area that corresponds to him. If he is only a user equally debit to place his name and password, if the program rejects it, it means that there is not registered and to press the emblem that he says the needed information to register and to be completed.

**Sight of the user:**

When the user has already entered a window will be opened where he will be able to select if he wants to acquire a disc of music or of movie. If it selects the discs of music, in a bent stall will be enabled the kinds that are registered, when he chooses some of these kinds a table would be loaded by all the names of the discs that correspond to the selected kind. The user also has the option to look for a disc in specific by means of three filters.

The first filter that appears is to search for a name, where the user must place the name of the disc that wants to appear, if the disc is registered then the name of the disc will appear, the author, the kind, the quantity and both songs corresponding to this disc.

The second filter that appears is of search for name of the author, likewise the user places the name of the author and it updates the table with the name of the disc that belongs to this author.

The third filter is of range of price, there are two fields of text where the user places the minimal price and the maximum price and when he presses the button of searching, there will also be a method that realizes the search of the name of the discs that are inside this range of prices.

Then, when the person has already chosen and selected the disc that wants to buy, he or she needs to type the quantity that he or she wants to buy of this disc and then to press the button that calls to buy, when it has done the purchase it will appear as an invoice where there will be placed the name of the person who bought the disc, the name of the disc and the quantity that it has chosen, later there will be notified by e-mail that the purchase was done successfully.

If the user typed a quantity bigger than the one that is available, the program will show a message of alert saying to him that it must rig a minor quantity, for the opposite if it rigs a minor quantity equally it will be said to him that it must rig minimum one to be able to realize the purchase, nevertheless, when there is no availability on any disc the user can realize a pre-order with the quantity that he wishes, when this happens and the program takes the name of the user who is requesting the discs, the name of the disc, the requested quantity, the mail of the person and the type of disc and then it saves in the pre-orders that only the administrator can see.

In this program there exists five songs and five trailers of movies that can be reproduced, when the user looks for some song and this song possesses the sound, automatically the program executes the action and opens, the player of music or videos and shows it to the user.

**Sight of the administrator:**

In the sight of the administrator they find the options to register, to modify and eliminate a disc of music or movie.

**Add CD of music:**

In the part of adding discs of music the administrator will have to deposit the name of the disc, the name of the author, the price, the quantity that wants at the disposal of the user and both songs that the disc will have and the category to which it belongs. After it all the information will be stored to take a record of all the discs that sells the shop.

**Add movies:**

If the administrator decides to add a movie it will have to register the name of the movie, the author, the price of this one, the available quantity and the genre of the movie. Then all the information will be saved in a file then will show to the user which discs are available in the shop.

**Modify discs of music:**

In the part of modifying discs one will show to the administrator a bent stall that will be full with the songs that the program finds in the record of discs of music that are before saved, the administrator can choose which of these songs it wants to modify, he can change any detail that he wishes, either the name of the disc, the author, the quantity, the price, the kind, and both songs that it possesses.

**Modify discs of movie:**

In the part of modifying discs of music one will show a bent stall to the administrator with all the names of the movies that exist or are registered in the file, it decides which of all the movies wants to modify, when it has already selected one, can change certain characteristics that this movie already possesses, either the name, the author, price or the quantity, when it has changed some field it will be able to touch the button of guarding to modify the changes that it realized in the file of movies.

**Purchases of the users:**

In the window of the administrator a part exists where all the purchases of the users can be seen. It is a window where there appears in a table the record of all the purchases of the people, there appears the name of the person that he bought, his bond, the e-mail, the name of the disc of music or of movie and the quantity that the person decided to buy.

**The first report:**

In the window of the administrator there exists an tab that is called reports where there appear the first one, the second one and the third report that it are where it removes as a type of statistics of the purchases that the users of the shop do.

What the first report does is to show the most sold CDs and less sold according to the kinds that exist. What it does is the method to look between all the sold discs for the names of the kinds and the songs that belong to this kind, then I take every kind and it checks the names of the songs, if more than one name repeats itself this one what it does is to take the quantity and adds them, and like that with all the kinds, later it checks in the list her firstly quantity and says that this it is the most sold disc and takes that of the last position and says that it is that of fewer quantity.

And finally what it does is to order him to the graph this information in order that they appear in the panel. There appears the name of the disc most sold with his respective quantity and the disc least sold equally according to his kind.

**The second report:**

In the second report what is going to appear is the quantity of the most sold and less sold discs but according to the user who bought it. In the window a bent stall appears alone where there are going to appear the persons who have bought some type of disc. When the administrator has chosen a user what will do the method it is to take the name of the person and to extract of the file all the discs that this user has bought only and he was saving it in a list with the quantity of every disc, after it he was buying if the name of the disc repeats itself, if it repeats itself then it would take the quantity of this disc and then add to place the names of the discs with his respective sum.

When all this process has ended, this information was passing to the graph to be showed to the administrator.

**The third report:**

In the third report it is very similar to the second one, but this one is with a date that the administrator types. What it must do is to place in the calendar a date that is minor to the current one, anyone but it must be a minor, at the time this date will be taken by the program and go to the files of purchase to extract the discs that have the date of minor purchase to this. And likewise it checks the names and if they are equal it would add the quantities, and then this information will be moved to the graph in order that they appear in the panel and the administrator could visualize them.