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COM6516 Object Oriented Programming and Software Design
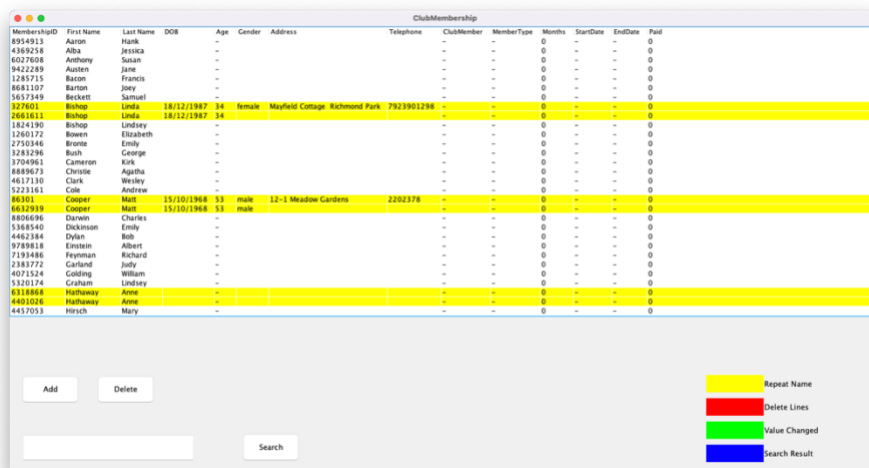
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Introduction of ClubMembership

When you launch the ClubMembership first time, you must see this warning window which remind you to fix the information of the customers, because there are several repeated names in the old file.

After clicking the ok button you will see the table with all customers read from csv file.

Take a look at the tips on the bottom-right of the window you can see the meaning of each color, so the lines with yellow color represent the customers with repeated names, you can just delete on of each two of them by clicking the line you want to delete then click the "Delete" button.

There are several columns in this table, let me explain some of them. "Months" means the period of the membership; I take integer as the number of months that the membership will last. "Member Type" shows whether the membership is on or off.

"Paid" shows the money that the customers have paid for the membership.

When you click the "Delete" button, you will not get the line deleted immediately, the lines you chose will turn red and there is a new button "update" become visible which you can click it to update the table.

Once you click the update, a new warning shows that it still has repeated names since I just choose 3 lines to delete. After click the "ok" button you can see the new table without the 3 lines chosen before, and there will be two file created locally, one is "next_update.csv" and another one is the original csv file with the time when you click the update button. Next time when you launch the program, it will load the latest file. And you can also check the history files in this local content.

Go back to the table. You can scroll down to see another 2 groups of repeated names here, if you want keep them, you can change the name if it was previously a typo in the original file. Just double-click the cell you want to make a change, then you can edit it, click the other lines or press Enter key to finish editing.

Like the delete method, change anything will not be applied immediately, you can see the cell turns green when you change anything in the table, once you done, click the "update".

You will not receive the warning any more since there are no repeated names, and you can use search button after typing something may be included in one or more customers. And the search result will be shown using blue. What's more, take a look at the date of birth that I set in the previous figure, the age was computed. And the EndDate of the membership and the money customers have paid will also be computed, so these columns are unable to edit, and the same with the membership ID, which is created randomly and non-repeating.

When you want to add a new customer, just click the "Add" button and fill the information in the new window, and this time the First Name, Last Name, and DOB are necessary, or you will see an error window.

You will not be able to set the membership when adding a new customer. Because the table need to be updated before setting a membership. Once you click "Confirm" the table will be updated and you can find the new customer in the bottom of the table.

Then you can set the membership as you wish, either "Months" or "StartDate" can be set while the other will be set with the default value: "Months" will be set by "1" and "StartDate" will be set today. And the "MemberType" will be set "I" means individual member if it was set null, and the "MemberState" will be set "Activated" is today is before the end date.

When you try to set membership to a customer which is less than 12 years old with "I" or less than 18 years old with "F", you will receive the Error page.

That's all of the functions that ClubMembership has. For more details, you can try to launch the program and explore yourself. Thank you!