SEMINAR

-ABOUT

My GUI app was made by using "Visual Studio 2019". I used C # as object oriented language for writing code, and XAML for visual part of GUI app.

-START

When launching the application, enter your name in the provided rectangle. At the click of the "Run me" button, the "Combo-box" appears. The combo box consists of several price ranges that pull data from the "Money" list. I made that list using the "Data" class, which takes a string as an argument and saves it to the list.

-COMBO BOX

Based on your selection of price range. Data is loaded and 2 text blocks appear. Those are cars and bikes. Cars consist of multiple brands and brands consist of multiple models. I want to note that there are many car brands and models so I choose just a few. Mainly I choose brand new models and put some of the old ones just to cover low price range because no new car costs less than 5,000€. There is also checkbox named “check all” which if checked will check both cars and bikes.

Data that is being used is loaded from text files. In text files there are strings that represent car model and brand. When selected price range and checked cars there will appear text blocks which represent car brands and if checked user will get a dropdown of selected brand models.

-LIST VIEW

At first user can just see car brand and model in dropdown but when selected list view appears and user can then see the price of selected vehicle. As user changes his mind or want to check price of other vehicles so does list view of selected item change. List view has three branches one is model second is brand and third is

price. For price I created Enumeration of every brand and its price so when brand is selected algorithm just passes integer value which then binds in price branch.

-SAVING

Saving is done by using Log text file which saves every selected brand of user's choice. When user closes program log file doesn't delete everything it does the opposite so user can see what he or she selected. Log file is restarted every time program is launched or by using reset button.

-RESET BUTTON

Reset button resets all data, it clears list view data, it clears data from dropdown of selected brand, it unchecks every checked object and it clears log file. When reset button is clicked program will ask you to select new price range which then will load up new data.

-TOUGHEST PART

Toughest part was for sure implementing selection changes to Combo box. I wanted to make when new price range was selected to automatically change data in dropdowns of selected brand. At first it didn't work just by using function Items.Clear() because it would break a program and memory couldn't be changed during execution of program so I had to first put my ItemsSource of brand to NULL and then clear everything by using function Items.Clear() and after that I was able to put ItemsSource to text file. For making Combo box selection I used switch case which switches depending on Combo box selected index. When an index is selected it iterates thru enumeration of every brand and loads up the data. Every index represent price range.

-HOW TO USE

The application is interactive and following the instructions it can be seen to work based on user selection. The application based on the selected price range gives the user the option to choose one of the car or motor vehicle models that are loaded from text files. When the user selects a price range, only those vehicles in that range are loaded, changing that price will interactively change the vehicles to select. When the user selects the vehicle he is interested in, he will receive feedback on its price, which is the purpose of the program, also each user selection is saved in a "log file" which is reloaded and deleted each time the program is restarted.

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