

Challenge Sample

This challenge should not take more than 3 hours to complete. You should comment the code where it makes sense. The source should be publicly available on a Github repository.

Using MVVM, build a WPF windows application that can browse a restaurant menu. The application does not need to actually store data but must be built in a way that a database implementation could be used.

Elements required

MenuItem Model with following fields

- IdMenuItem int
- Name string
- Price decimal
- Active bool

Create an interface and then 2 data access classes that implement it. One for application and one for unit tests.

- Get function to get all menu items
- Insert delete update (save in memory only)

View model

- Get list of all menu items
- Shows filtered list using search text
- Insert delete update
- Data service should be injected in ViewModel

View (must resize properly)

- Left pane list of all items (use some style)
- Right pane details of selected menu item (ID is read only, all others can be edited)
- Splitter to resize left and right pane
- Top search textbox (dynamic)
- Bottom bar with button to display full menu as json in dialog popup, insert delete update data and close application

Unit test project

- Test filtering in VM for multiple search texts

As an extra, you can add validation, styles, icons, extra data access class to save to local file as json, use base model or view model with inheritance for the INotifyPropertyChanged implementation. Add whatever you feel makes it better.