

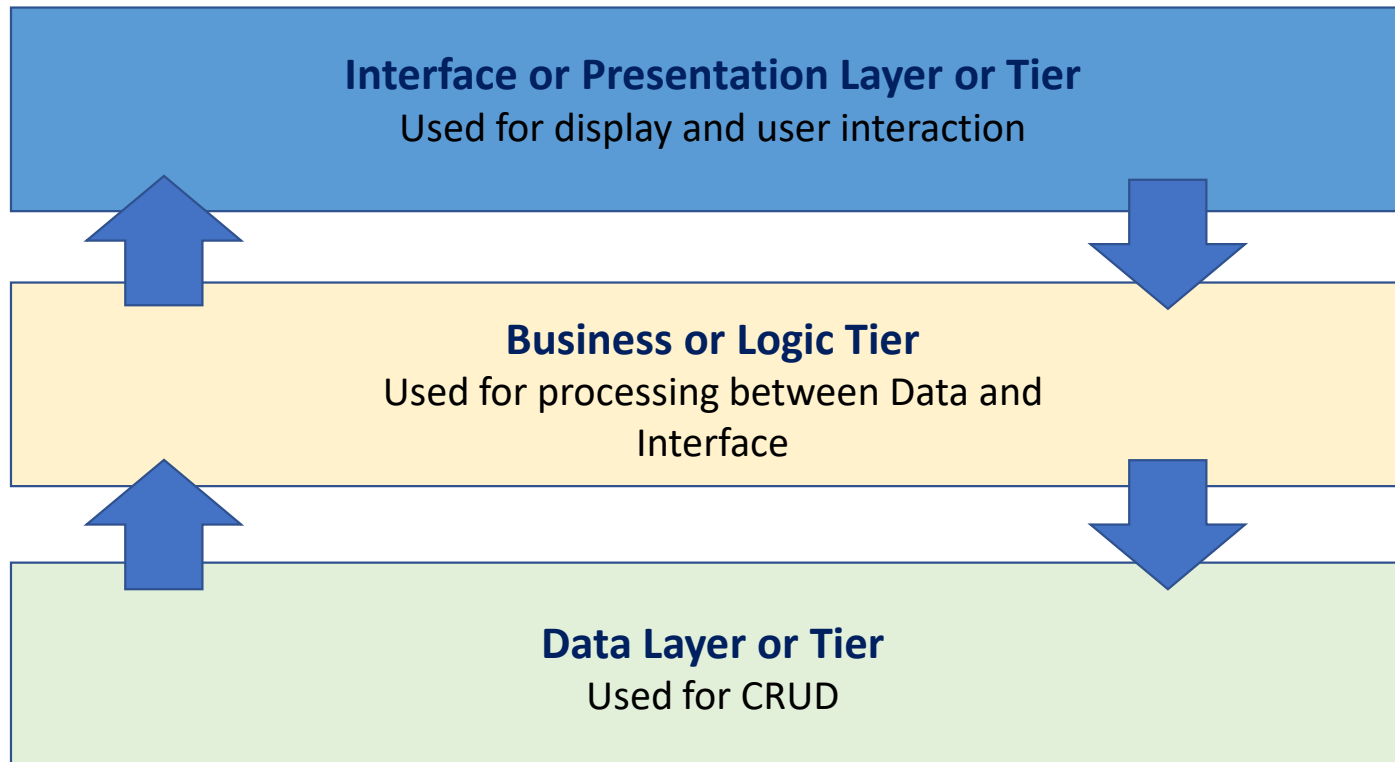
WPF

Windows Presentation Foundation

Structures and
elements

Effective development approaches

- Separate concerns
 - Interface Layer
 - Logic Layer
 - Data Layer



Data layer

- For our application
 - A simple text file
 - Classes to access the data
 - Methods to return items and lists

Logic layer

- Classes have methods we need
- These do work for us
 - Eg manipulate strings
 - Calculate values
- Highly effective for extension
- Highly effective for maintenance

Interface layer

- **Windows Presentation Foundation (WPF)**
 - Has its own interface layer file
 - Has its own logic layer file
 - Logic is implemented as C#

WPF Interface layer

- Controls are defined using markup
 - A system of tagging like HTML
- Positions should be relative not absolute
- Gives us systems for responsive design

WPF Markup

- Written in
 - eXtensible
 - Application
 - Markup
 - Language

• XAML

Markup language

- Interpreted by the interface
- Layout is 'constructed' from components
- The components live in containers
 - Think of <div> in HTML5
- Much, much more on this later

Styles

- Central definition: Write once, use many
 - Think CSS
- Allows for coherent testing
- Allows application of standards
- Allows for re-use
- Allows for 'override' when required

Application of styles

- Controls have properties
- Background, Margins, Fonts in Text Boxes etc.
- Styles are applied to the properties
 - At Container Level
 - At Control Level

Highly relevant

- Microsoft is committed
- Around for a long time
- Ported into [.NET Core](#)
- Used in product development
- Community development through Open Sourcing
- Thinking processes link to others