Validating User Input



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Module Outline



Validation in WPF

Validate user input with INotifyDataErrorInfo

Display errors by using an error template

Refactor validation logic into a base class

Build logic to validate Data Annotations

Enable and disable the save button

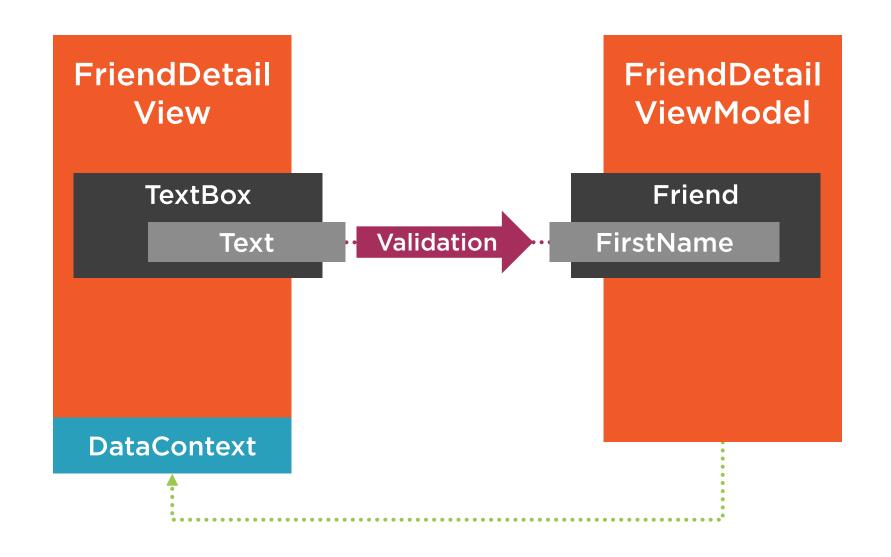




Save a friend without a firstname Process unhandled exceptions



Validation in WPF



Validation in WPF

Validation Rules

Exceptions

ValidatesOnExceptions

IDataErrorInfo

ValidatesOnDataErrors

INotifyDataErrorInfo

Validates On Notify Data Errors

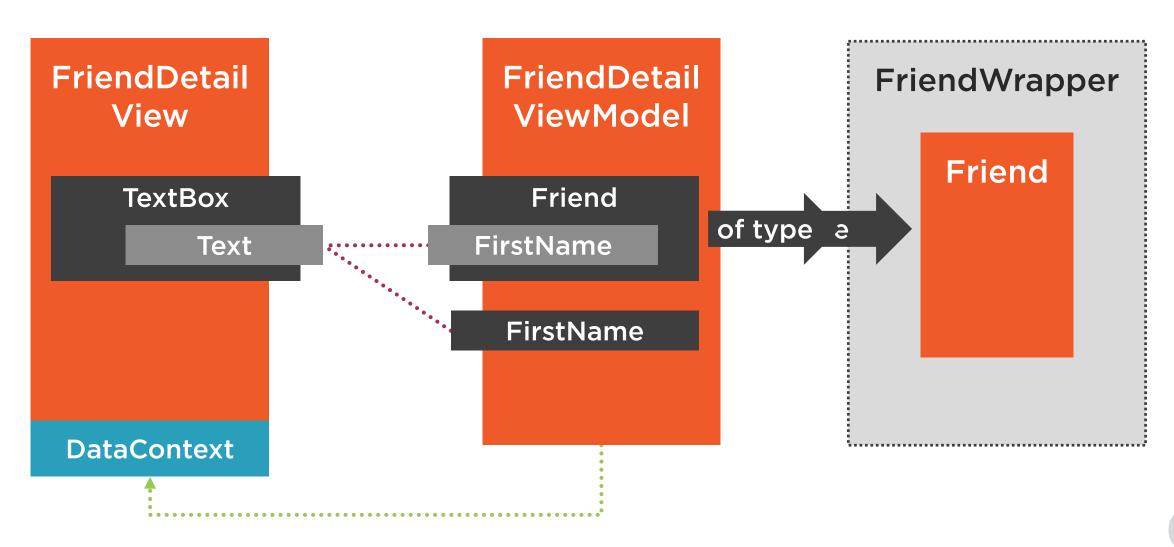


Validation in WPF

```
public interface INotifyDataErrorInfo
{
  bool HasErrors { get; }
  bool EventHandler<DataErrorsChangedEventArgs> ErrorsChanged;
  IEnumerable GetErrors(string propertyName);
}
```



Wrap the Model

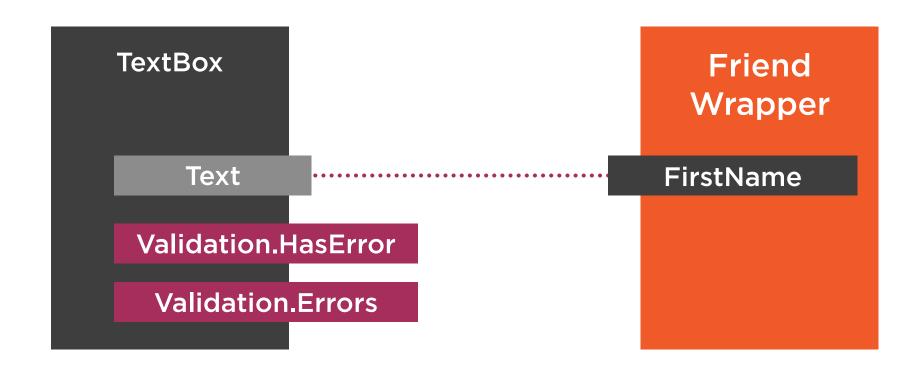




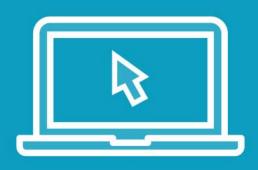
Create the FriendWrapper
Implement INotifyDataErrorInfo
Add some validation logic



Display the Error in the Tooltip





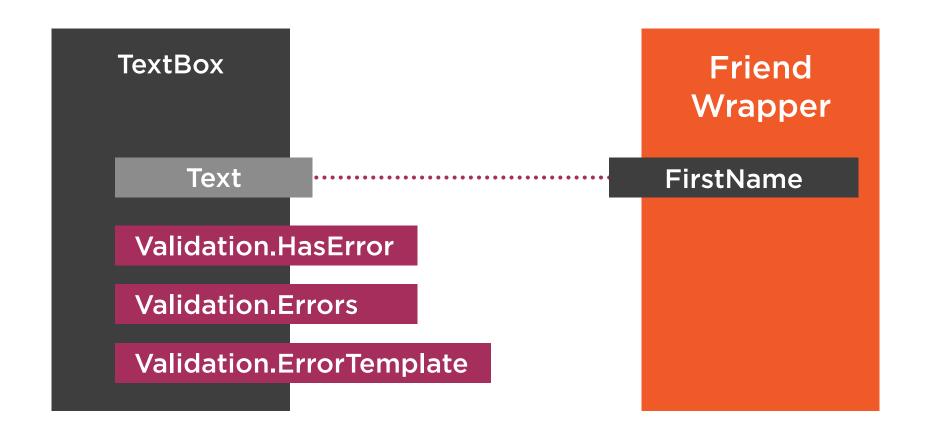


Use a Style for a TextBox

Display the error in the tooltip



Display the Error Below the TextBox







Define an error template

Display the error below the TextBox





Create a NotifyDataErrorInfoBase class
Introduce a ModelWrapper class
Trigger validation in the ModelWrapper



Validate by Using Data Annotations

```
public class Friend
  [Required]
  [StringLength(50)]
  public string FirstName { get; set; }
```



Validate by Using Data Annotations

Validator ValidationContext ValidationResult





Validate by using Data Annotations





Enable and disable the save button



Summary



Implement INotifyDataErrorInfo in a base class

Display errors with an error template

Validate by using Data Annotations

Enable and disable the save button

Course:

WPF and MVVM:

Advanced Model Treatment

