

MVVM Design Specs 10/18/17 Model Logic

DocumentModel
-fileName : string -pages : ObservableCollection<Page>
<<constructor>>Document() <<property>> +fileName : string +Save : bool +SaveAs(file : string) : bool +Load(file : string) : bool <<event>> PropertyChangedHandler() -RaisePropertyChanged(property: string) <ul style="list-style-type: none"> • Save(): saves to the existing fileName and returns true, returns false if fileName is empty • SaveAs(fileName): sets filename to new fileName provided, then saves • Load(fileName): loads document and fills text from a txt file
PageModel
-text : ObservableCollection<Text> -cursor : int
<<constructor>>Page() <<property>>+text : Text <<property>>+cursor : int +InputText() +DelText() +PassText(type : bool) <<event>> PropertyChangedHandler() -RaisePropertyChanged(property : string) <ul style="list-style-type: none"> • InputText(): takes user text input and inserts at the cursor position, advances cursor 1 position • DelText(): removes text from cursor position, reduced cursor 1 position • PassText(type): accessor for page's text, type = true allows writing, type = false allows reading <ul style="list-style-type: none"> ○ Used in loading and saving of files
TextModel
-c : char -bold : bool -italics : bool -underline : bool
<<Constructor>>Text(c : char) <<Constructor>>Text(c : char, bold : bool, italics : bool, underline : bool) <<property>> +ch : char <<property>> +bold : bool <<property>> +italics : bool <<property>> +underline : bool <<event>> PropertyChangedHandler() -RaisePropertyChanged(property : string)