Problem 1: Page Counter

The unusual behavior occurs in the Menu Controller Class. In order to trigger this behavior the user has to go through the Menu Bar and select “Go To”.

After that if the user selects a number grater then the number of slides the counter will be out of range.

The way that it should behave is to not allow the user to go over or under the number of slides that the presentation has.

In order to tackle this issue a check has been made in order to verify the number input it.

Problem 2: Save Functionality

This problem occurs when we try to save. The functionality behaves weirdly. The presentation gets saved, but we cannot add a different instance of a presentation with a different name.

The program has a hard coded value which prevents us from saving the presentation.

The issue was fixed by adding the option to save presentation under different names for as many times we want.

Problem 3: Open Functionality

The problem occurs when accessing the open function from Menu Controller. While pressing the Open button a basic presentation is being displayed. However, by looking at the code we observe that no matter what we this demo presentation will always be display.

In order to fix this issue a dynamic way had to be discovered that can open any xml file

Problem 4: Creating fonts in SlideViewerComponent

The issue relies in SlideViewerComponent class. The class is also responsible for creating a font which is used for painting.

The solution for this issue is to implement an interface which is responsible for creating the font. This way we avoid having to many responsibilities in SlideViewerComponent class.

Problem 5: Incorrect execution of the steps in Presentation

The issue occurs in the Presentation class. When setting up a slide a check is being made rather if the number is different then null or not.

However, the order of the check is quite wrong because the currentSlide gets the number without even checking if it’s null or not.

The solution to this issue is to make the check and then assign the value of the currentSlide after checking if the value was null or not.

Problem 6: Xml accessor

The issue occurs in the XML accessor class. Here we can observe that his class is an abstract class but with no particular fields. It has an empty constructor and it only has methods.

With that having in mind we should turn the Xml Acessor into an interface. This will only hold methods and for the maintainability it can be always implemented in a class for feature development or bug fixing.

By having it as an interface there is no need to instantiate the class in order to access it’s methods.