Project Documentation
For
C# Assignment 8

Author: Jeremy Whitenect
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1. Project Overview

This project entails creating a C# WPF program known as the "Face Slicer". It is composed of 4 different face pieces (hair, eyes, nose, mouth) which can be swapped with other elements of the same type to create silly looking faces. As this is a project built on top of other projects, there are a few more elements to it as well. The next element is the help files, of which there is one covering the Face Slicer section, as well as a web version of that same help file

On top of that, there is the tabs section. The Face Slicer is the third of four tabs. The first being three open text boxes, meant to obtain the first and last names of the user and their address. The second contains two dropdown menus for hobbies and occupation, as well as two radio buttons for preference between dog and cat. Finally, the last section has buttons for saving, displaying, and clearing this information.

The final element of this project, and the main one to be added for this specific version of the project, is to create an MSI installer of the project with the elements from the previous two paragraphs. As well, to install it, making sure everything runs proper, and that the installer has an icon.

2. Project Requirements

2.1 Implied Requirements

As this project is mainly focused on the installer aspect, the three implied requirements are as follows: the completion of the Face Slicer with Controls assignment, the completion of the CHM Help Assignment, and the completion of the Tab Controls assignment.

2.2 Main Requirements

The main requirements of this project are all focused around creating an MSI installer file with the implied requirements. As such, the requirements are the following: to create a completely new project, copying the code into it instead of copying a project itself. To create an installer file, to show it installing and uninstalling, to show the directory of the installed project, to make sure there is a shortcut with an icon for the project, and to show that everything runs.

3. Design Plans

3.1 Initial Designs

Due to this project being built off of three initial assignments, a large portion of this project has already been designed and planned. But for further reference, see Figure 1: Face Slicer, Figure 2: CHM Help, and Figure 3: Tab Control.

3.2 New Designs

As this is just an installer file, the main aspect of design is simply what is included other than the MSI and EXE files. The external images, and CHM files are included, as well as an ICO icon file, and a desktop shortcut which uses the aforementioned ICO file. To see the files included, see Figure 4: Installer Structure

4. Implementation

   This project was implemented by creating a new solution using the code from the Tab Controls assignment. Then, using the Windows Installer section, a new project within the solution, which took the output from the project containing Tab Controls. After that, and adding the external images and Help file, all that had to be done was to export the project.

5. Testing

       To test this project, what was done was running the installer not just on my main system, but on my second system (a Windows 10 laptop) as well. I ran both the installation and uninstallation operations on both, in which everything worked. If I had more systems, I would have done much more extensive testing. VMs are a valid option for testing as well, but since I do not have access to extra Windows keys, using a VM was not done for testing in this scenario.

Appendix A: Requirements Traceability

Paragraph Defined	Requirements Text	Paragraph Implemented	Paragraph Tested
1	Make a new project with names and location appropriate for YOUR project.	2.2	5
1	Show the installation works	2.2	5
1	Show the app in program files	2.2	5
1	Show it running	2.2	5

Appendix B: Image Index
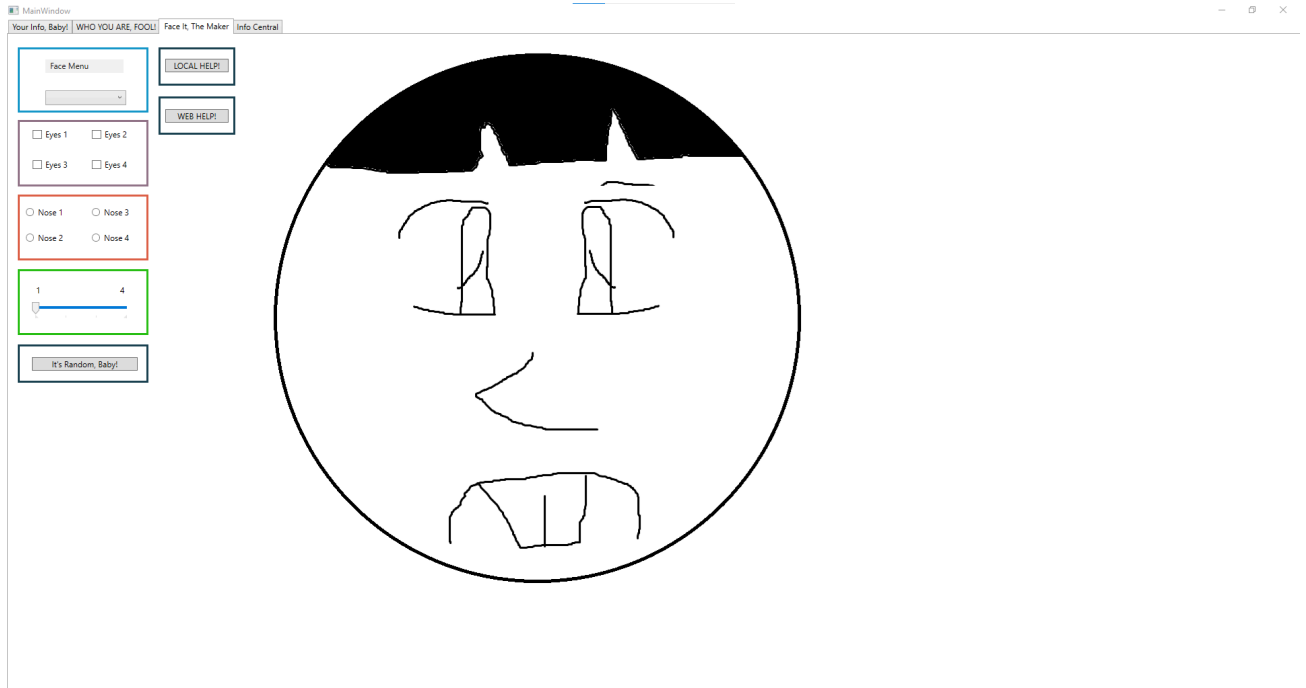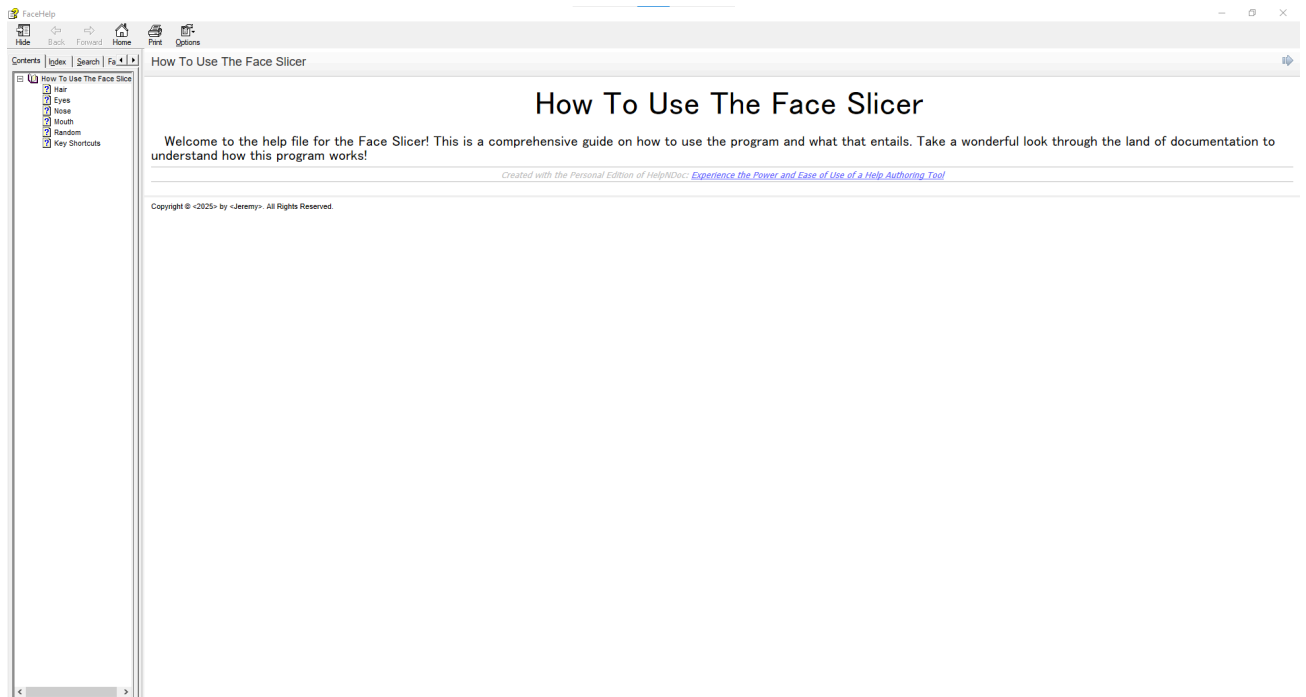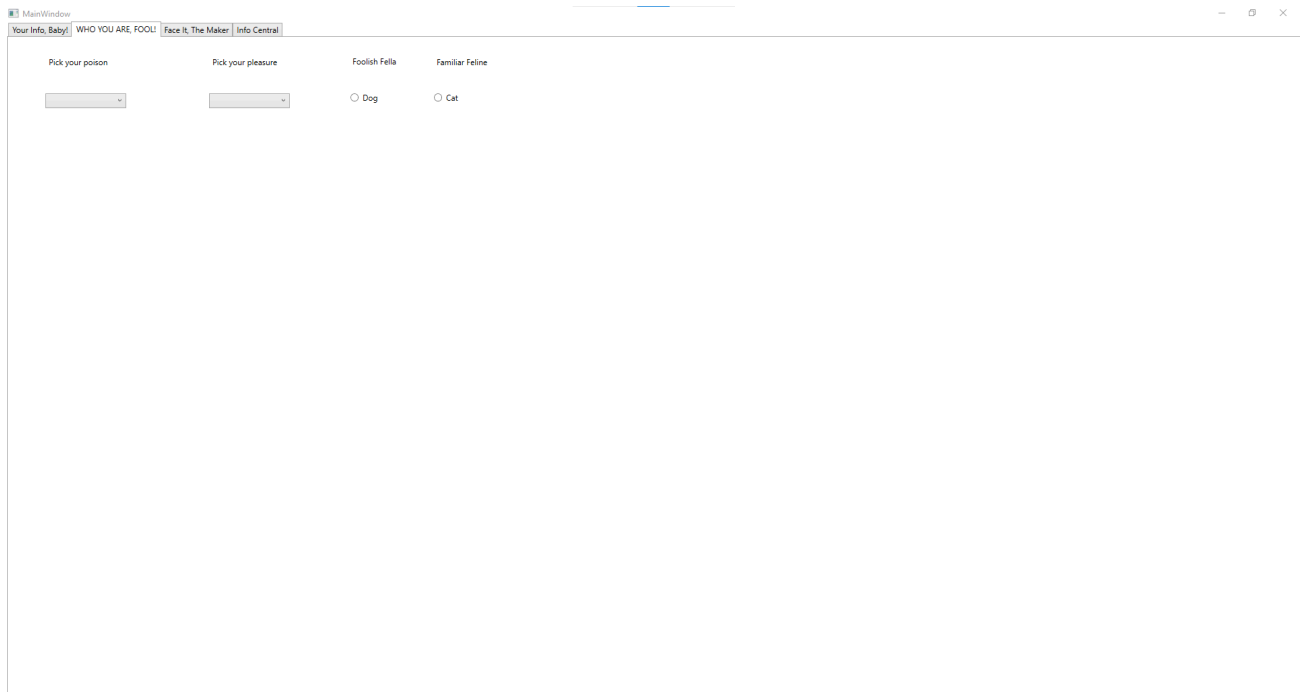
Figure 1: Face Slicer

Figure 2: CHM Help

Figure 3: Tab Control

Figure 4: Installer Structure