Unit Test 3 Documentation

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**#1:**

Architecture: List of all the controls and some comments about how they behave.

Form: “Presidents”. Control Box disabled.

GroupBox with no text for president radio buttons

16 Radio Buttons for presidents

16 textboxes that say “Which # President?” when hovered. Validates input

ErrorHandler for the textbox input

Picture Box for a picture of the currently selected president. Enlarges when hovered.

Group Box “Filter” for filter radio buttons

5 Radio Buttons for filters

Group Box control with link at title. Holds Web Browser

Web Browser control that changes depending on currently selected president. Tool Tip text for links: “Professor Schuh for President!” Displays fireworks video when all text boxes have correct #

Status Strip for Progress Bar

Progress Bar for time limit. Stops if all text boxes have correct #

Timer for time limit. When done, resets the text boxes. Stops if all text boxes have correct #

Exit Button, disabled by default, enabled when all text boxes have correct #

Pseudocode: The pseudocode for how the application is working.

Pseudocode was typed into solution as comments, then code was added in between the pseudocode afterwards. Please see the solution for the pseudocode.

**#3:**

Theme and why you chose it:

The theme of my form is a form to build a user profile. This could be used for anything from social media to organizations or creating a personal webpage. However, as intended by the assignment, it is not very good at accomplishing that task.

What the form does:

Upon start, form1 is displayed, which presents a variety of controls that the user uses to enter information about themselves and how they want their profile form to look. These controls do not function as the user would expect. Once the user has clicked the Build Button for the 4th time, form1 is hidden and form2 is displayed. Form2 is basically just a hard-coded unnecessary loading window. It informs the user that the profile is being built using the input, but it is really just a timer with a progress bar. The progress bar will fill and the label on the form will display that the wait is done, except the timer is not actually done and the user will have to wait a bit longer before form2 is hidden and form3 is displayed. Form3 is the final result form, except it will incorrectly apply the original input and present a profile to the user that is not like they wanted.

A description of each event and what occurs when the event is triggered:

**Form1 – nameTextBox:** the user types their name in this textbox, but its event handler only accepts capital letters A-M and lowercase letters n-z.

**Form1 – radioButtons:** There are 3 radio buttons that represent background color choices for the final form. Form3 will apply the wrong BackColor depending on which radioButton is checked. (red -> yellow, yellow -> blue, blue -> red)

**Form1 – aboutTextBox, toolStrip:** The user enters information about themselves, like a bio or introduction. Above it lies a toolstrip with three buttons that are presented as bold, underline, and italic. When clicked, each of these three buttons will apply the wrong effect to the text (bold -> italics, italics -> underline, underline -> bold). Form3 will also replace all of the ‘.’ characters in the aboutTextBox input with a ‘ ‘ before displaying it in its label.

**Form1 – buildButton:** When clicked the first 3 times, this button will uncheck all 3 of the color radio buttons and then display a message box stating that the user forgot to select a color. When clicked for the 4th time, the button will cause form1 to be hidden and will create and display form2.

**Form2 – timer:** The timer will tick with an interval of 500. Upon each tick, it will update both a visible progress bar and a hidden one. After 15 seconds, the visible progress bar will be full and the label on form2 will be updated to say that it is done loading (however the timer is actually not done yet). After another 15 seconds, the invisible progress bar will be full and the timer will stop. Then form2 will be hidden and form3 will be created and displayed.

How to stop the form:

Just pressing the ‘x’ on any of the forms will stop the application.