Logic of taking a test or performing a review

Who calls whom and when

0. \*Mainwindow.xaml.cs Test Menu Item click initialized the create dictionary

and create CurrentQuestionNumberString from the count of items in the dictionary

1. \*xaml.cs shows message to pick Review or Test

2. \*Both R&T call xaml.cx “AnswerQuestions (Q)”

4. \*AskQuestions if Q asks Static for next question, if blank shows Message

telling the user to Select File-> Save, or File->Clear

5. \*If not blank, loads the question and if there is either a jpg or mp3 file activates

the appropriate button

6. \*If not blank AskQuestions activates the Show correct answer button

7. \*ShowCorrect answer button loads the correct answer, activates the

\*Score correct or score wrong buttons, and loads any jpg

\*or mp3 file and activates the appropriate button and also

\*calls AskQuestions(A)”

8. The score correct button discards the saved current question number string

and activates the get Next Question button

9. the score wrong button:

a. If Test increments the wrong answer counter, adds the

CurrentQuestionNumberString to StringOfWrongAnswers and

and clears the current answer number string

b. If Review, moves the current answer number string to the end of the

QANumberString and activates the get Next Question buttom

10. The GetNextQAPair button calls AskQuestions(A)”

11. The AskQuestions(T)

a. Calls ResetMediaButtons to make both inactive

b. If T=Q loads the question and activates the appropriate media buttons

If T=A loads the correct answer and activates the appropriate media buttons

b. If jpg != “” calls Activate Image button depending on whether the Jpg

type matches T

c. If mp3 != “” calls Activate Sound button depending on whether the Jpg

type matches T

11. Needed methods in xaml.cs

a. AskQuestions(T)

b. ResetMediaButtons

c. SetMediaButtons(T) where T = I or S.

If I Image button is activated

If S Sound button is activated

12. Needed globals in static

a. CurrentQuestionNumberStr

b. int NumberOfWrongAnswers

13. If Results->Save is selected. The Results folder SubjectNodeID.txt file has

the following string appended: DateTimeString^%WrongAnswers^ ~ delimited

wrong answers number strings. The

a. CurrentQuestionNumberStr = “”

b. int NumberOfWrongAnswers = 0

c. re-create CurrentQuestionNumberString

14. If Results-> Clear

a. CurrentQuestionNumberStr = “”

b. int NumberOfWrongAnswers = 0

c. re-create CurrentQuestionNumberString

Task 1 = Setting up the question

1. Load the question string into tbxQuestion

2. Call the EnableQuestion(char Q)

4. code and enabled button’s click process to Pass the Url to the desired external process

private void OpenExternalHperlink(string Url)

{System.Diagnostics.Process.Start(Url);}

Task 2 = Set up the btnShowCorrect

1. Call Disable buttons to return the btnOpenImage and btnOpenMp3 to their original state

2. Load the correct answer into tbxCorrectAnswer

Task 3 EnableButtons(char qa)

If there is a question JPG

a. Enable btnOpenImage

b. If qa = ‘Q’ change its foreground color to Red if qa = ‘A’ change its foreground

color to blue

3. If there is a question mp3

a. Enable the btnOpenMp3

b. If qa = ‘Q’ change its foreground color to Red if qa = ‘A’ change its foreground

color to blue

Task 4 DisableButtons

Return btnOpenImage and btnOpenMp3to their original status

\*Task 5 Create method to send a hyperlink to an external app

private void OpenExternalHperlink(string Url)

{System.Diagnostics.Process.Start(Url);}