

Task	Control type	Expectation	Working Initially on Installable?	Working Initially on Standalone?	Issue	Working now?	Solution
Form initialization	Form	Form loads with first and last name textBoxes, View Records, Phonetic Practice, Phonetic Assessment, Syllabary Practice, Syllabary Assessment, and Exit buttons, two pictureBoxes, a menustrip	Yes	Yes			
Entering text in First Name textBox	Textbox	Accepts valid letters. Rejects special characters.	No	No	Special characters cause issues with saving user records.	Yes	Use regular expressions to limit character input to alphanumeric plus space. Backspace was also allowed for error correction.
Entering Last Name textBox	Textbox	Accepts valid letters. Rejects special characters.	No	No	Special characters cause issues with saving user records.	Yes	Use regular expressions to limit character input to alphanumeric plus space. Backspace was also allowed for error correction.
View Records button clicked	Button	Opens Records form.	Yes	Yes with default settings	On standalone version if the executable was moved from the folder with the Records and Resources folders it couldn't find them.	Yes	Added an auto-detect feature to check if the folders exist in the default location. If not, prompt the user to locate the folders and store the new location. Added a settings menu to modify or reset the custom location settings.
Phonetic Practice button clicked	Button	Opens the Phonetic Practice form.	Yes	Yes with default settings	On standalone version if the executable was moved from the folder with the Records and Resources folders it couldn't find them.	Yes	Added an auto-detect feature to check if the folders exist in the default location. If not, prompt the user to locate the folders and store the new location. Added a settings menu to modify or reset the custom location settings.
Phonetic Assessment button clicked	Button	Opens the Phonetic Assessment form and stores First and Last names from textBoxes.	Yes	Yes with default settings	On standalone version if the executable was moved from the folder with the Records and Resources folders it couldn't find them.	Yes	Added an auto-detect feature to check if the folders exist in the default location. If not, prompt the user to locate the folders and store the new location. Added a settings menu to modify or reset the custom location settings.
Syllabary Practice button clicked	Button	Opens the Syllabary Practice form.	Yes	Yes			
Syllabary Assessment button clicked	Button	Opens the Syllabary Assessment form and stores the First and Last names from textBoxes.	Yes	Yes			
Clicking File in the menu strip	Menustrip	Expands the File menu strip to display the Records and Exit options.	Yes				
Clicking Help in the menu strip	Menustrip	Expands the Help menu strip to display the Instructions option.	Yes				
Clicking File > Records in the menu strip	Menustrip	Opens the Records form.	Yes				
Clicking File > Exit in the menu strip	Menustrip	Exits the application.	Yes				
Clicking Help > Instructions in the menu strip	Menustrip	Opens the Instructions form.	Yes				
Clicking Help > Settings in the menu strip	Menustrip	Opens the Settings form.	Yes				
Clicking Help > About in the menu strip	Menustrip	Opens the About form.	Yes				

Main Menu

Task	Control type	Expectation	Working Initially on Installable?	Working Initially on Standalone?	Issue	Working now?	Solution
Form initialization	Form	The word list listbox displays and populates with available lists along with a label, a close button, a menuStrip, and three labels (English, Phonetic, Syllabary) display.	Yes	Yes with default settings	On standalone version if the executable was moved from the folder with the Records and Resources folders it couldn't find them.	Yes	Added an auto-detect feature to check if the folders exist in the default location. If not, prompt the user to locate the folders and store the new location. Added a settings menu to modify or reset the custom location settings.
Selecting a list from the Word List listbox	Listbox	Loads the correct word list with words displayed in the English, Phonetic, and Syllabary listboxes.	Yes	Yes with default settings	On standalone version if the executable was moved from the folder with the Records and Resources folders it couldn't find them.	Yes	Added an auto-detect feature to check if the folders exist in the default location. If not, prompt the user to locate the folders and store the new location. Added a settings menu to modify or reset the custom location settings.
Selecting a word from the English word listbox	Listbox	The word is highlighted and the Cherokee audio file for the word plays.	Yes with exception	Yes with exception	If the audio file was not available nothing would play, and not feedback was given except to the console.	Yes	Added exception handling to display feedback using a label to indicate the audio is not available for the selected word.
Selecting a word from the Phonetic word listBox	Listbox	The word is highlighted and the Cherokee audio file for the word plays.	Yes with exception	Yes with exception	If the audio file was not available nothing would play, and not feedback was given except to the console.	Yes	Added exception handling to display feedback using a label to indicate the audio is not available for the selected word.
Selecting a word from the Syllabary word listbox	Listbox	The word is highlighted and the Cherokee audio file for the word plays.	Yes with exception	Yes with exception	If the audio file was not available nothing would play, and not feedback was given except to the console.	Yes	Added exception handling to display feedback using a label to indicate the audio is not available for the selected word.
Close button clicked	Button	The Phonetic Practice form is closed and the application returns to the Main Menu form.	Yes	Yes			
Clicking File in the menu strip	Menustrip	Expneds the File menu to display the Import List and Return to Main Menu options.	Yes	Yes			
Clicking File > Import List in the menu strip	Menustrip	Opens the open file dialog window.	Yes	Yes			
Selecting a file in the Import File open file dialog and clicking Open	Listbox	The file name is added to the Word List listbox	Yes	Yes			
Selecting the newly imported word list	Listbox	Loads the correct word list with words displayed in the English, Phonetic, and Syllabary listboxes.	No	No	Missing commas or words sometimes caused exceptions when parsing the file. If the list loaded, selecting a word after the improper formatting resulted in an exception.	Yes	Missing words are listed as Not Provided. Feedback is given when trying to select a field holding malformed data.
Importing an improperly formatted word list	Listbox	The word list is accepted and feedback is given on the formatting issue.	No	No	Missing commas or words sometimes caused exceptions when parsing the file. If the list loaded, selecting a word after the improper formatting resulted in an exception.	Yes	Missing words are listed as Not Provided. Feedback is given when trying to select a field holding malformed data.
Clicking File > Return to Main Menu in the menu strip	Menustrip	The Phonetic Practice form is closed and the application returns to the Main Menu form.	Yes	Yes			

Phonetic Practice

Task	Control type	Expectation	Working Initially on Installable?	Working Initially on Standalone?	Issue	Working now?	Solution
Form initialization	Form	Begin Round button enabled, End Round button disabled, English to Phonetic checkbox unchecked, textboxes disabled, Close button enabled, Time Remaining, Current Score, High Score, and direction label present.	Yes	Yes with default settings	On standalone version if the executable was moved from the folder with the Records and Resources folders it couldn't find them.	Yes	Added an auto-detect feature to check if the folders exist in the default location. If not, prompt the user to locate the folders and store the new location. Added a settings menu to modify or reset the custom location settings.
Begin Round button clicked (default Phonetic to English)	Button	Textboxes, End Round button, and timer enabled, Begin Round button and checkbox disabled, Time Remaining label displays remaining time. Labels become visible and display the Phonetic words to be translated. Performance is recorded if a name was entered on the Main Menu. If round is in progress button should not respond to a click.	Yes	Yes			
End Round button clicked (default Phonetic to English)	Button	Begin Round button, and checkbox enabled, End Round button, textboxes, and timer disabled. Labels for the words to be translated become invisible. Time Remaining label displays Time is Up. If round is not in progress button should not respond to a click.	Yes	Yes			
Close button clicked	Button	The current round performance is recorded (if a name was entered on the Main Menu form), the form is closed, and returns to the Main Menu form.	Yes	Yes			
File is clicked in the menustrip	Menustrip	The menu expands to display the Return to Main Menu option.	Yes	Yes			
File > Return to Main Menu is clicked in the menustrip	Menustrip	If a round is in progress the performance is saved to the user record (if a name was entered on the Main Menu), the Phonetic Assessment form is closed, and returns to the Main Menu form.	Yes	Yes			
Help is clicked in the menustrip	Menustrip	The menu expands to display the Instructions option.	Yes	Yes			
Help > Instructions is clicked in the menustrip	Menustrip	The Instructions form is loaded.	Yes	Yes			
Entering words in the textboxes	Textbox	If the word is the correct translation the score increases by one, the textbox clears, and a new word is assigned to the corresponding label. Any text can be entered but not action will occur until the correct word is entered. If the translation mode is Phonetic to English the user must enter the English word. If the user clicks the checkbox to select English to Phonetic the textbox will accept the Phonetic word with or without spaces or hyphens. If the round is not in progress the textbox will not accept input.	Yes	Yes			
English to Phonetic checkbox is checked	Checkbox	Label above textboxes change to display Enter Phonetic Translation. When a round begins English words will populate the word labels and the user will input the Phonetic translation.	Yes	Yes			
Begin Round button clicked (alternative English to Phonetic)	Button	Textboxes, End Round button, and timer enabled, Begin Round button and checkbox disabled, Time Remaining label displays remaining time. Labels become visible and display the English words to be translated. If round is in progress button should not respond to a click.	Yes	Yes			
End Round button clicked (alternative English to Phonetic)	Button	Begin Round button, and checkbox enabled, End Round button, textboxes, and timer disabled. Labels for the words to be translated become invisible. Time Remaining label displays Time is Up. If round is not in progress button should not respond to a click.	Yes	Yes			

Phonetic Assessment

Task	Control type	Expectation	Working initially on Installable?	Working Initially on Standalone?	Issue	Working now?	Solution
Form initialization	Form	Eight textboxes display, one label with basic directions, and one Close button. The eight pictureboxes are not visible.	Yes	Yes			
Enter Phonetic syllables in the textboxes	Textboxes	Once matching syllable is entered the corresponding Syllabary glyph is loaded to the above picturebox and the picturebox is set to visible.	Yes	Yes			
Enter other characters into the textboxes	Textboxes	Picturebox image is removed and the picturebox becomes invisible.	Yes	Yes			
Close button clicked	Button	Closes the Syllabary Practice form and returns to the Main Menu form.	Yes	Yes			
Clicking File in the menu strip	Menustrip	Expands the File menu strip to display the Return to Main Menu option.	Yes	Yes			
Clicking File > Return to Main Menu in the menu strip	Menustrip	Closes the Syllabary Practice form and returns to the Main Menu form.	Yes	Yes			

Syllabary Practice

Task	Control type	Expectation	Working Initially on Installable?	Working Initially on Standalone?	Issue	Working now?	Solution
Form initialization	Form	Begin Round button enabled, End Round button disabled, pictureboxes disabled, textboxes disabled, Close button enabled, Time Remaining, Current Score, High Score, and direction label present.	Yes	Yes with default settings	On standalone version if the executable was moved from the folder with the Records and Resources folders it couldn't find them.	Yes	Added an auto-detect feature to check if the folders exist in the default location. If not, prompt the user to locate the folders and store the new location. Added a settings menu to modify or reset the custom location settings.
Begin Round button clicked	Button	Textboxes, Pictureboxes, End Round button, and timer enabled, Begin Round button disabled, Time Remaining label displays remaining time. Pictureboxes display the Syllabary glyph to be translated. If round is in progress button should not respond to a click.	Yes	Yes			
End Round button clicked	Button	Begin Round button enabled, End Round button, textboxes, pictureboxes, and timer disabled. Time Remaining label displays Time is Up. The round performance is recorded if a name was entered on the Main Menu. If round is not in progress button should not respond to a click.	Yes	Yes			
Close button clicked	Button	The current round performance is recorded (if a name was entered on the Main Menu form), the form is closed, and returns to the Main Menu form.	Yes	Yes			
Text entered into textboxes	Textboxes	If a matching Phonetic syllable is entered, the score increases by one, the picturebox loads a new image, the textbox is cleared.	Yes	Yes			
File is clicked in the menustrip	Menustrip	The menu expands to display the Return to Main Menu option.	Yes	Yes			
File > Return to Main Menu is clicked in the menustrip	Menustrip	If a round is in progress the performance is saved to the user record (if a name was entered on the Main Menu), the Syllabary Assessment form is closed, and returns to the Main Menu form.	Yes	Yes			
Help is clicked in the menustrip	Menustrip	The menu expands to display the Instructions option.	Yes	Yes			
Help > Instructions is clicked in the menustrip	Menustrip	The Instructions form is loaded.	Yes	Yes			

Syllabary Assessment

Task	Control type	Expectation	Working Initially on Installable?	Working Initially on Standalone?	Issue	Working now?	Solution
Form initialization	Form	Form loads with first and last name textBoxes, Load Record and Exit buttons, and a menustrip.	Yes	Yes			
Entering text in First Name textBox	Textbox	Accepts all characters. Only matching will retrieve records. Upper or lower case do not matter.	Yes	Yes			
Entering Last Name textBox	Textbox	Accepts all characters. Only matching will retrieve records. Upper or lower case do not matter.	Yes	Yes			
		Retrieve text from first and last name textboxes. Searches Records folder for matching record file. If a match exists the information is displayed on multiple labels. The labels are made visible. If a matching record file is not found only the first label is made visible to display a message stating the record does not exist.	Yes	Yes with default settings	On standalone version if the executable was moved from the folder with the Records and Resources folders it couldn't find them.	Yes	Added an auto-detect feature to check if the folders exist in the default location. If not, prompt the user to locate the folders and store the new location. Added a settings menu to modify or reset the custom location settings.
Load Record button clicked	Button	The Records form is closed and returns to the Main Menu form.	Yes	Yes			
Close button clicked	Button						
File is clicked in the menustrip	Menustrip	The menu expands to display the Return to Main Menu option.	Yes	Yes			
Clicking File > Return to Main Menu in the menu strip	Menustrip	Closes the Records form and returns to the Main Menu form.	Yes	Yes			

Records

Task	Control type	Expectation	Working Initially on Installable?	Working Initially on Standalone?	Issue	Working now?	Solution
Form initialization	Form	Form loads with three labels, two readonly textboxes, and one close button.	Yes	Yes			
Closed button clicked	Button	Closes the Instructions form and returns to the Main Menu form.	Yes	Yes			
File	Menustrip	Expands the File menu strip to display the Return to Main Menu option.	Yes	Yes			
Clicking File > Return to Main Menu in the menu strip	Menustrip	The Phonetic Practice form is closed and the application returns to the Main Menu form.	Yes	Yes			

Instructions

Task	Control type	Expectation	Working Initially on Installable?	Working Initially on Standalone?	Issue	Working now?	Solution
Form initialization	Form	The word list listbox displays and populates with available lists along with Import List and Remove List close buttons inside a groupbox. Three textboxes each with a label and a browse button, and a Reset to Default button inside a groupbox with a warning label at the bottom. One close button.	Yes	Yes			
Selecting a word from the listbox	Listbox						
Import List button clicked	Button	Opens the open file dialog window.	Yes	Yes			
Selecting a file in the Import File open file dialog and clicking Open	Listbox	The file name is added to the Manage Word Lists listbox	Yes	Yes			
Remove List button clicked	Button	The list highlighted in the listbox is deleted from the Resources/WordLists folder and removed from the listbox.	Yes	Yes			
Resources Browse button clicked	Button	The FolderBrowseDialog window opens to allow the user to select the Resources folder location.	Yes	Yes			
Word Lists Browse button clicked	Button	The FolderBrowseDialog window opens to allow the user to select the WordLists folder location.	Yes	Yes			
Records Browse button clicked	Button	The FolderBrowseDialog window opens to allow the user to select the Records folder location.	Yes	Yes			
Reset to Default button clicked	Button	The Properties.Settings.Default entries for each folder are reset to an empty string.	Yes	Yes			
Close button clicked	Button	Closes the Settings form and returns to the Main Menu form.	Yes	Yes			
Clicking File in the menu strip	Menustrip	Expands the File menu strip to display the Return to Main Menu option.	Yes	Yes			
Clicking File > Return to Main Menu in the menu strip	Menustrip	Closes the Settings form and returns to the Main Menu form.	Yes	Yes			

Settings

Task	Control type	Expectation	Working Initially on Installable?	Working Initially on Standalone?	Issue	Working now?	Solution
Form initialization	Form	The form loads with one read only textbox, six labels, two linklabels, and one button.	Yes	Yes			
Cherokee Nation Language Program link label clicked	LinkLabel	A browser windows opens to the Cherokee Nation Language program site https://language.cherokee.org	Yes	Yes			
GitHub link label clicked	LinkLabel	A browser windows opens to this project GitHub site https://github.com/fined-nsu/CherokeeLanguageStudyTool	Yes	Yes			
Close button clicked	Button	The About form is closed and the application returns to the Main Menu form.	Yes	Yes			
Clicking File in the menu strip	Menustrip	Expnds the File menu to display the Import List and Return to Main Menu options.	Yes	Yes			
Clicking File > Return to Main Menu in the menu strip	Menustrip	The About form is closed and the application returns to the Main Menu form.	Yes	Yes			

About