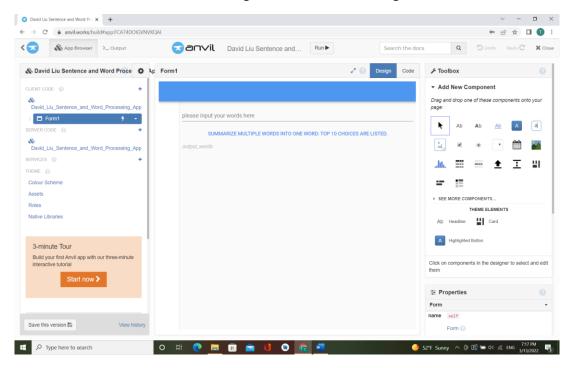
Front-end web app link: https://fca74doigvnvxgai.anvil.app/UTEG24CHFQ7DD2AU5G7DB6HH

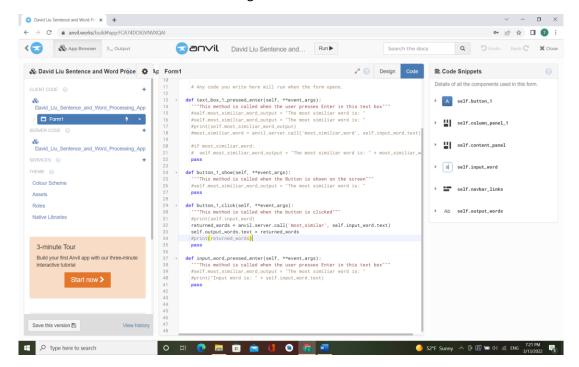
Tutorial on how to develop a front-end web-based app based on Anvil works:

https://anvil.works/learn/tutorials/google-colab-to-web-app

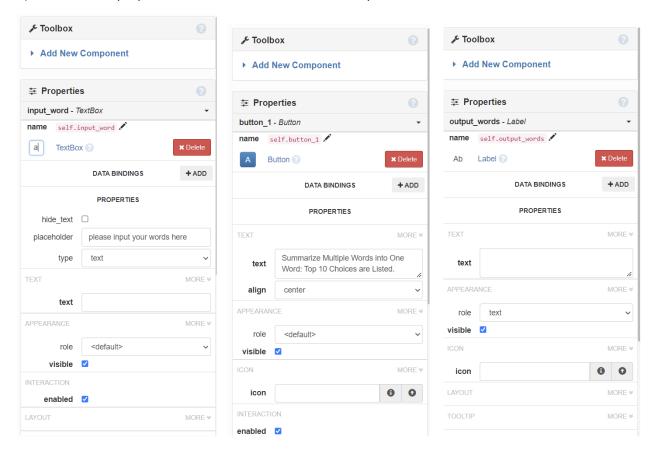
1) Screenshot 1: interface on Anvil Work design studio. It is in the Design mode.



2) Screenshot 2: interface on Anvil Work design studio. It is in the Code mode.



3) Screenshot 3: properties of the textbox, button, and output label:



4) Python codes used in the Code section for input, output and interaction with the Google Colab code:

from anvil import *

import anvil.server

class Form1(Form1Template):

def __init__(self, **properties):

Set Form properties and Data Bindings.

self.init_components(**properties)

Any code you write here will run when the form opens.

def text_box_1_pressed_enter(self, **event_args):

"""This method is called when the user presses Enter in this text box"""

```
pass
```

```
def button_1_show(self, **event_args):

"""This method is called when the Button is shown on the screen"""

pass

def button_1_click(self, **event_args):

"""This method is called when the button is clicked"""

#print(self.input_word)

returned_words = anvil.server.call('most_similar', self.input_word.text)

self.output_words.text = returned_words

#print(returned_words)

pass

def input_word_pressed_enter(self, **event_args):

"""This method is called when the user presses Enter in this text box"""

#self.most_similiar_word_output = "The most similiar word is: "

#print("Input word is: " + self.input_word.text)

pass
```

5) Examples of inputs and outputs by the system

football and soccer

SUMMARIZE MULTIPLE WORDS INTO ONE WORD: TOP 10 CHOICES ARE LISTED.

[[football', 0.9279550313949585], ['soccer', 0.9057307243347168], ['basketball', 0.8770369291305542], ['rugby', 0.838591992855072], ['handball', 0.8211396336555481], ['cricket', 0.8198157548904419], ['tennis', 0.8187107443809509], ['hockey', 0.8153386116027832], ['boxing', 0.8045641183853149], ['lacrosse', 0.7926631569862366]]

professor teaches in a university

SUMMARIZE MULTIPLE WORDS INTO ONE WORD: TOP 10 CHOICES ARE LISTED.

[[university', 0.728559672832489], [cambridge', 0.6951942443847656], [oxford', 0.670843780040741], [graduate', 0.663942277431488], [professor', 0.6522369384765625], [harvard', 0.6459981799125671], [faculty', 0.6443161964416504], [edinburgh', 0.6386677026748657], [renters', 0.6339263916015625], [education', 0.6269642114639282]]

Football and golf are popular

SUMMARIZE MULTIPLE WORDS INTO ONE WORD: TOP 10 CHOICES ARE LISTED.

[[golf, 0.7218402028083801], [sport, 0.7138334512710571], [competitions', 0.6974631547927856], [football', 0.6805915832519531], [clubs', 0.6696231365203857], [tournaments', 0.667607843875885], [matches', 0.6628644466400146], [mahjong', 0.656302273273468], [teams', 0.6515592932701111], [competition', 0.6485686302185059]]