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1 #####
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7
8
9 #####
10
11 import tkinter as tk
12 import csv
13 import tkinter.messagebox as tm
14 import random as rdm
15 from tkinter import ttk
16 import tkinter.messagebox as tm
17 from tkinter import scrolledtext
18 import datetime
19 import tkinter
20 from tkinter import *
21
22
23 #//\\//\\//\\//\\#
24 #QUESTIONIRE CLASS#
25 #//\\//\\//\\//\\#
26
27 class Question:
28     'Contains all information for a given question'
29
30     def __init__(self, moduleCode, questionNumber, generatedQuestion= False):
31         self.__questionNumber = questionNumber
32         self.__generatedQuestion = generatedQuestion
33         if not generatedQuestion:
34             with open('test_'+ moduleCode +'.csv') as csvfile:
35                 rdr = csv.reader(csvfile, delimiter=',')
36                 for row in rdr:
37                     if int(row[0]) == questionNumber:
38                         self.__questionInformation = row[1]
39                         self.__correctAnswer = row[2]
40                         self.__incorrectAnswers = [row[3],row[4],row[5]]
41
42             else:
43                 with open('testGen_'+ moduleCode +'.csv') as csvfile:
44                     rdr = csv.reader(csvfile, delimiter=',')
45                     for row in rdr:
46                         if int(row[0]) == questionNumber:
47                             self.__questionInformation = row[1]
48                             self.__correctAnswer = row[2]
49                             self.__incorrectAnswers = [row[3],row[4],row[5]]
50
51     def __str__(self):
52         a = 'Question Number: ' + str(self.__questionNumber) + ' | Question Information: ' + self.__questionInformation + ' | Correct Answer: ' +
53 self.__correctAnswer + ' | Incorrect Answers: ' + self.__incorrectAnswers[0] + ', ' + self.__incorrectAnswers[1] + ', ' + self.__incorrectAnswers[2]
54         return a
55
56     def getGeneratedQuestion(self):
57         return self.__generatedQuestion
58
59     def getQuestionNumber(self):
60         return self.__questionNumber
61
62     def getQuestionInfo(self):
63         return self.__questionInformation
64
65     def getCorrectAnswer(self):
66         return self.__correctAnswer
67
68     def getIncorrectAnswers(self):
69         return self.__incorrectAnswers
70
71 #//\\//\\//\\//\\#
72 #TEST CLASS#
73 #//\\//\\//\\//\\#
74 class Test:
75     'Class that is used to run a test'
76
77     def __init__(self, moduleCode, numberOfQuestions = 20):
78         self.__moduleCode = moduleCode
79         self.__currentQuestion = 1
80         self.__currentMark = 0
81         self.__questions = [Question(moduleCode, i) for i in range(1, numberOfQuestions + 1)]
82         self.__selectedAnswers = []
83
84     def getQuestionDetails(self, questionNumber = -1):
85         if questionNumber == -1:
86             return self.__questions[self.__currentQuestion - 1]
87         else:
88             return self.__questions[questionNumber - 1]
89
90     def getNumberOfQuestions(self):
91         return (len(self.__questions))
92
93     def getCurrentQuestionNumber(self):
94         return self.__currentQuestion
95
96     def getSelectedAnswer(self, questionNumber):
97         return self.__selectedAnswers[questionNumber - 1]
98
99     def getCurrentMark(self):
100         return self.__currentMark
101
102     def incCurrentQuestion(self):
103         self.__currentQuestion += 1
104
105     def incCurrentMark(self):
106         self.__currentMark += 1
107
108     def addSelectedAnswer(self, answer):
109         self.__selectedAnswers.append(str(answer))
110
111     def generateQuestion(self):

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111         return
112     def questionPersonalistaion(self):
113         return
114     def checkAnswer(self, providedAnswer, questionNumber = -1):
115         if questionNumber == -1:
116             question = self.__questions[self.__currentQuestion - 1]
117         else:
118             question = self.__questions[questionNumber - 1]
119         if str(providedAnswer) == str(question.getCorrectAnswer()):
120             return True
121         else:
122             return False
123     def saveMarks(self, fName, LName, filename='test_marks.csv'):
124         now = datetime.datetime.now()
125         nowDate = now.strftime('%d-%m-%Y')
126         nowTime = now.strftime('%H:%M:%S')
127         try:
128             with open(filename, 'a') as csvfile:
129                 fileWriter = csv.writer(csvfile, delimiter=',')
130                 fileWriter.writerow([LName, fName, self.__moduleCode, self.__currentMark, nowDate, nowTime])
131         except IOError:
132             print('error')
133         else:
134             return
135     def exitTest(self):
136         return
137     #//\\//\\//\\//\\//
138     #APPLICATION CLASS#
139     #//\\//\\//\\//\\//
140     class Application(tk.Tk):
141     def __init__(self, *args, **kwargs):
142         tk.Tk.__init__(self, *args, **kwargs)
143         tk.Tk.wm_title(self, "Teams3's DQS Coursework Application")
144         self.__container = tk.Frame(self)
145         self.__container.grid()
146         self.__container.grid_rowconfigure(0, weight=1)
147         self.__container.grid_columnconfigure(0, weight=1)
148         self.createMenuBar(self.__container)
149         self.frames = {}
150         frame = LoginPage(self.__container, self)
151         self.frames[LoginPage] = frame
152         frame.grid(row=0, column=0, sticky="nsew")
153         self.show_frame(LoginPage)
154     def createMenuBar(self, container):
155         menubar = tk.Menu(container)
156         basicMenu = tk.Menu(menubar, tearoff=0)
157         basicMenu.add_command(label="Home", command=lambda: self.show_frame(HomePage))
158         basicMenu.add_separator()
159         basicMenu.add_command(label="Settings", command=lambda: popupMessage("Not Running yet"))
160         basicMenu.add_command(label="Your test scores", command=lambda: self.show_frame(TestScores))
161         basicMenu.add_command(label="Logout", command=lambda: popupMessage("Not Running yet"))
162         basicMenu.add_separator()
163         basicMenu.add_command(label="Exit", command=quit)
164         infoMenu = tk.Menu(menubar, tearoff=0)
165         infoMenu.add_command(label="Help", command=lambda: popupMessage("Not Running yet"))
166         infoMenu.add_command(label="Feedback", command=lambda: self.show_frame(UserFeedback)) #New Line Here
167         infoMenu.add_separator()
168         infoMenu.add_command(label="About", command=lambda: popupMessage("Not Running yet"))
169         menubar.add_cascade(label="Menu", menu=basicMenu)
170         menubar.add_cascade(label="Help", menu=infoMenu)
171         tk.Tk.config(self, menu=menubar)
172     def validLogin(self):
173         for F in ( HomePage, TestScores, SearchPage):
174             frame = F(self.__container, self)
175             self.frames[F] = frame
176             frame.grid(row=0, column=0, sticky="nsew")
177             frame = TestModule001(self.__container, self, "001", 'An Introduction to HTML')
178             self.frames[TestModule001] = frame
179             frame.grid(row=0, column=0, sticky='nsew')
180             frame = TestModule002(self.__container, self, "002", 'HTML')
181             self.frames[TestModule002] = frame
182             frame.grid(row=0, column=0, sticky='nsew')
183             frame = LessonModule001(self.__container, self, "001")
184             self.frames[LessonModule001] = frame
185             frame.grid(row=0, column=0, sticky='nsew')
186             frame = LessonModule002(self.__container, self, "002")
187             self.frames[LessonModule002] = frame

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222     frame.grid(row=0, column=0, sticky='nsew')
223
224     frame = Editor001(self.__container, self, "001")
225     self.frames[Editor001] = frame
226     frame.grid(row=0, column=0, sticky='nsew')
227
228     frame = Editor002(self.__container, self, "002")
229     self.frames[Editor002] = frame
230     frame.grid(row=0, column=0, sticky='nsew')
231
232     frame = UserFeedback(self.__container, self, ['Module - 001', 'Module - 002'])
233     self.frames[UserFeedback] = frame
234     frame.grid(row=0, column=0, sticky='nsew')
235
236     frame = ReviewFeedback(self.__container, self)
237     self.frames[ReviewFeedback] = frame
238     frame.grid(row=0, column=0, sticky='nsew')
239
240
241     def show_frame (self, cont):
242
243         if cont != LoginPage:
244             self.createMenuBar(tk.Frame(self))
245             frame = self.frames[cont]
246             frame.tkraise()
247
248     #/\//\//\//\//\//\#
249     #MENU FRAME CLASS#
250     #/\//\//\//\//\//\#
251
252     class MenuFrame(tk.Frame):
253         'Menu Frame'
254
255         def __init__(self, parent, controller):
256             'Initialise all widgets of the menu frame.'
257             tk.Frame.__init__(self, parent)
258
259             # self.__column0xpad = 150
260             # self.__row0ypad = 75
261
262             self.__column0xpad = 50
263             self.__row0ypad = 40
264
265             self.lblTitle = tk.Label(self, bg='white', fg='#585858', text="Welcome to the Home Page", justify='center', font=EXTRA_LARGE_FONT, wraplength=500)
266             self.lblTitle.grid( row=0, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad,50), pady=(self.__row0ypad,75), sticky="n")
267
268             self.lblMessage = tk.Label(self, bg='DDDDDD', text="Welcome to Teams3's DQS Coursework Application, Use of Teams's DQS Coursework Programme is governed
by Cardiff University Information Services Regulations and Policies. By logging in you agree to comply with these policies and regulations and you accept the
use of cookies which the Blackboard software application puts on your computer, as well as how they collect, store and use data which you input.",
justify='left', font=NORMAL_FONT, wraplength=400)
269             self.lblMessage.grid(row=1, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad,50), pady=(0,50), sticky="w")
270
271             self.lblInstructions = tk.Label(self, text="Select a module, then click to start the lesson or start the test", justify="left", font=NORMAL_FONT,
wraplength=300)
272             self.lblInstructions.grid(row=2, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad,0), pady=(75,0), sticky="w")
273
274             self.lblModule = tk.Label(self, text='Module:', justify='left', font=NORMAL_FONT, wraplength=100)
275             self.lblModule.grid(row=1, column=1, columnspan=1, rowspan=1, padx=(0,0), pady=(0,0), sticky="ne")
276
277             self.listModule = tk.Listbox(self, height= 5, width=50, font=SMALL_FONT, selectmode=tk.SINGLE)
278             self.scroll = ttk.Scrollbar(self, command= self.listModule.yview)
279             self.listModule.configure(yscrollcommand=self.scroll.set)
280
281             for item in ["001 - An Introduction to HTML", "002 - HTML"]:
282                 self.listModule.insert(tk.END, item)
283
284             self.listModule.selection_set(0, tk.END)
285             self.listModule.focus_set()
286
287             self.listModule.grid(row=1, column=2, columnspan=1, rowspan=1, padx=(0,0), pady=(0,0), sticky="nw")
288             self.scroll.grid(row=1, column=3, columnspan=1, rowspan=1, padx=(0,0), pady=(0,0), sticky="ns")
289             self.listModule.activate(0)
290
291             self.butLesson = tk.Button(self, text="View Lesson", font=LARGE_BUTTON_FONT, height= 2, width=15, relief=tk.GROOVE, bg='white', fg='green',
activebackground='black', activeforeground='green')
292             self.butLesson.bind("<Enter>", lambda event, x=self.butLesson: x.configure(bg="#80A0FF"))
293             self.butLesson.bind("<Leave>", lambda event, x=self.butLesson: x.configure(bg="#C5D0C8"))
294             self.butLesson.grid(row=2, column=1, columnspan=1, rowspan=1, padx=(0,0), pady=(100,0), sticky="w")
295
296             self.butTest = tk.Button(self, text="Test", font=LARGE_BUTTON_FONT, height= 2, width=15, relief=tk.GROOVE, bg='white', fg='green',
activebackground='black', activeforeground='red')
297             self.butTest.bind("<Enter>", lambda event, x=self.butTest: x.configure(bg="#80A0FF"))
298             self.butTest.bind("<Leave>", lambda event, x=self.butTest: x.configure(bg="#C5D0C8"))
299             self.butTest.grid(row=2, column=2, columnspan=1, rowspan=1, padx=(0,0), pady=(100,0), sticky="e")
300
301             self.butEdit = tk.Button(self, text="Edit Lesson", font=LARGE_BUTTON_FONT, height= 2, width=15, relief=tk.GROOVE, bg='white', fg='green',
activebackground='black', activeforeground='blue')
302             self.butEdit.bind("<Enter>", lambda event, x=self.butEdit: x.configure(bg="#80A0FF"))
303             self.butEdit.bind("<Leave>", lambda event, x=self.butEdit: x.configure(bg="#C5D0C8"))
304             self.butEdit.grid(row=3, column=2, columnspan=1, rowspan=1, padx=(0,0), pady=(50,0), sticky="e")
305
306             self.butFeedback = tk.Button(self, text="View Feedback", font=LARGE_BUTTON_FONT, height= 2, width=15, relief=tk.GROOVE, bg='white', fg='green',
activebackground='black', activeforeground='green')
307             self.butFeedback.bind("<Enter>", lambda event, x=self.butFeedback: x.configure(bg="#80A0FF"))
308             self.butFeedback.bind("<Leave>", lambda event, x=self.butFeedback: x.configure(bg="#C5D0C8"))
309             self.butFeedback.grid(row=3, column=1, columnspan=1, rowspan=1, padx=(0,0), pady=(50,0), sticky="e")
310
311     #/\//\//\//\//\//\#
312     #HOME PAGE CLASS#
313     #/\//\//\//\//\//\#
314
315     class HomePage (MenuFrame):
316
317         def __init__(self, parent, controller):
318             MenuFrame.__init__(self, parent, controller)
319             self.butTest.configure(command=lambda: self.showSelectedModuleTest(controller))
320             self.butLesson.configure(command=lambda: self.showSelectedModuleLesson(controller))
321             self.butEdit.configure(command=lambda: self.showSelectedModuleEditor(controller))
322             self.butFeedback.configure(command=lambda: controller.show_frame(ReviewFeedback))
323
324         def showSelectedModuleEditor(self, controller):

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file:///C:/Users/c1545108/appdata/local/temp/tmpjgo6jk.html

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436         self.SubFrame.grid(row = 0, column = count)
437         self.w = tk.Label(self.SubFrame, text = word[3:], font = ("Times", 9))
438         self.w.grid(row = 1, column = 0)
439         self.v = tk.Label(self.SubFrame, text = "", font = ("Times", 6))
440         self.v.grid(row = 0, column = 0) #subscript
441         count += 1
442     else:
443         self.w = tk.Label(self.fileInputFrame, text = word, font = ("Times", 15))
444         self.w.grid(row = 0, column = count)
445         count += 1 #still print text if it starts with . and is not a command
446     else:
447         self.w = tk.Label(self.fileInputFrame, text = word, font = ("Times", 15))
448         self.w.grid(row = 0, column = count)
449         count += 1
450     Num += 1
451     self.iframe.update_idletasks()
452     self.canv["scrollregion"] = self.canv.bbox(tk.ALL) #update scroll region
453
454 def button(self):
455     self.ButtonFrame = tk.Frame(self)
456     self.ButtonFrame.grid(row = 3)
457
458     self.butBack = ttk.Button(self.ButtonFrame, text='Go Back')
459     #butEdit['command'] = self.Back
460     self.butBack.grid(row = 0, column = 0, pady=(25,0), padx=(0,50))
461
462     self.butTest = ttk.Button(self.ButtonFrame, text='Take Test')
463     #butEdit['command'] = self.Test
464     self.butTest.grid(row = 0, column = 2, pady=(25,0) )
465
466 def setCommands(self, controller, menu, test):
467
468     self.butBack.configure(command=lambda: controller.show_frame(menu))
469     self.butTest.configure(command=lambda: controller.show_frame(test))
470
471 ##//\\//\\//\\//\\//\\//
472 #EDITOR FRAME CLASS#
473 ##//\\//\\//\\//\\//\\//
474
475 class EditorFrame(tk.Frame):
476     def __init__(self, parent , controller, moduleCode):
477         tk.Frame.__init__(self, parent)
478         self.__lesson = "lesson" + moduleCode+ ".txt"
479         #root.protocol('WM_DELETE_WINDOW', self.exit) ,this will ask if you want to save when you press the red [X]
480         self.textbox()
481         self.menubar()
482
483     def textbox(self):
484         self.textPad = scrolledtext.ScrolledText(self, width = 115, height = 32)
485         read = open(self.__lesson, "r")
486         self.textPad.insert('1.0', read.read()) #creates a textbox with the contents of the file
487         self.textPad.grid(column = 0, row = 1, padx=(50,0))
488
489     def save(self):
490         file = open(self.__lesson, "w")
491         data = self.textPad.get('1.0', tk.END) #reads the lines and saves them to the text file
492         file.write(data)
493         file.close()
494
495     def exit(self, controller, menu):
496         if tm.askyesno("", "Do you wish to save before exit?"):
497             self.save()
498             controller.show_frame(menu)
499
500     def help(self):
501         label = tm.showinfo("Help", "Basic commands: .B - bold .I - italics .SB - subscript .SP - superscript .F - fraction .U - subset")
502
503     def menubar(self):
504         self.ButtonFrame = tk.Frame(self)
505         self.ButtonFrame.grid(row = 0)
506
507         self.btnSave = ttk.Button(self.ButtonFrame, text='Save')
508         self.btnSave['command'] = self.save
509         self.btnSave.grid(row = 0, column = 1, pady=(30,30), padx=(35,35))
510
511         self.butHelp = ttk.Button(self.ButtonFrame, text='Help')
512         self.butHelp['command'] = self.help
513         self.butHelp.grid(row = 0, column = 0, pady=(30,30))
514
515         self.butBack = ttk.Button(self.ButtonFrame, text='Back')
516         self.butBack.grid(row = 0, column = 2, pady=(30,30))
517
518     def setCommands(self, controller, menu):
519         self.butBack.configure(command=lambda: self.exit(controller, menu))
520
521 ##//\\//\\//\\//\\//\\//
522 #SEARCH SCORE FRAME CLASS#
523 ##//\\//\\//\\//\\//\\//
524
525 class SearchScoresFrame(tk.Frame):
526
527     def __init__(self, parent , controller):
528         tk.Frame.__init__(self, parent)
529         label = tk.Label(self, text="Test Results", font = L_FONT)
530
531         mbutton1 = tk.Button(self, text= "Display all scores", command = lambda: controller.show_frame(testScores) , font = L_FONT)
532         mbutton1.pack(pady=5)
533
534         userEnt = tk.Entry(self)
535         userEnt.pack(pady=5)
536         userEnt.get()
537
538     def printer():
539         userSearch = userEnt.get()
540         print( str(userSearch) )
541
542
543
544
545
546

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547         cr = csv.reader(open("test_marks.csv"))
548
549         for row in cr:
550             if userSearch in row:
551                 text = tk.Label(self, text = " ".join(row), font = L_FONT )
552                 text.pack()
553
554         tk.Button(self, text='Search', command=printer).pack()
555
556         label2 = tk.Label(self, text="Surname-Forename-Module-Mark-Test date-Test time", font = L_FONT)
557         label.pack(pady= 10)
558         label2.pack(pady= 13)
559
560         #//\\//\\//\\//\\//\\//\\#
561         #TEST SCORE FRAME CLASS#
562         #//\\//\\//\\//\\//\\//\\#
563
564         class TestScoresFrame(tk.Frame):
565
566             def __init__(self, parent, controller):
567                 tk.Frame.__init__(self, parent)
568
569                 self.mbutton1 = tk.Button(self, text= "Seach Page", font = L_FONT)
570                 self.mbutton1.pack(pady=5)
571
572                 label = tk.Label(self, text="All Test Results", font = L_FONT).pack()
573                 label2 = tk.Label(self, text="Surname-Forename-Module-Mark-Test date-Test time", font = L_FONT)
574                 label2.pack(pady= 13)
575
576                 cro = csv.reader(open("test_marks.csv"))
577                 for row in cro:
578                     if "001" in row:
579                         text1 = tk.Label(self, text = " ".join(row), font= L_FONT).pack()
580
581             def setCommands(self, controller, searchPage):
582                 self.mbutton1.configure(command = lambda: controller.show_frame(searchPage))
583
584             #//\\//\\//\\//\\//\\//\\#
585             #TEST FRAME CLASS#
586             #//\\//\\//\\//\\//\\//\\#
587
588             class TestFrame(tk.Frame):
589                 'Test frame'
590
591             def __init__(self, parent, controller, mCode, mName, lCompleted):
592                 'Initialise all main widgets of the test frame.'
593                 tk.Frame.__init__(self, parent)
594                 self.__associatedModule = Module(mCode, mName, lCompleted)
595
596                 # self.__column0xpad = 150
597                 # self.__row0ypad = 75
598
599                 self.__column0xpad = 50
600                 self.__row0ypad = 40
601
602                 self.setIntructionPage()
603
604                 self.questionTemplate()
605                 self.hideQuestionTemplate()
606
607                 self.feedbacktemplate()
608                 self.hideFeedbackTemplate()
609
610             def setIntructionPage(self):
611                 'Create widgets for the instruction for the test.'
612
613                 #styleEdit = ttk.Style()
614                 #styleEdit.configure('TButton', width=15, font=LARGE_BUTTON_FONT)
615
616                 self.titleVariable = tk.StringVar()
617                 self.titleVariable.set(self.__associatedModule.getModuleName() + " Test Instructions")
618
619                 self.labelVariable = tk.StringVar()
620                 self.labelVariable.set("You have selected to do the test for " + self.__associatedModule.getModuleCode() + " you only have one attempt. Please read the
instructions thoroughly before you start the test.")
621
622                 self.lblTitle = tk.Label(self, textvariable=self.titleVariable, justify='center', font=EXTRA_LARGE_FONT, wraplength=400)
623                 self.lblTitle.grid( row=0, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad,50), pady=(self.__row0ypad,75), sticky="n")
624
625                 self.lblMessage = tk.Label(self, textvariable=self.labelVariable, justify='right', font=NORMAL_FONT, wraplength=400)
626                 self.lblMessage.grid(row=1, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad,50), pady=(0,50), sticky="w")
627
628
629                 self.butMenu = tk.Button(self, text="Back to Menu", font=LARGE_BUTTON_FONT, height= 2, width=15, relief=tk.GROOVE, bg="#C5D0C8")
630                 self.butMenu.bind("<Enter>", lambda event, x=self.butMenu: x.configure(bg="#80A0FF"))
631                 self.butMenu.bind("<Leave>", lambda event, x=self.butMenu: x.configure(bg="#C5D0C8"))
632                 self.butMenu.grid(row=2, column=2, columnspan=1, rowspan=1, padx=(0,0), pady=(100,0), sticky="e")
633
634                 self.butStart = tk.Button(self, text="Start Test", font=LARGE_BUTTON_FONT, height= 2, width=15, relief=tk.GROOVE, bg="#C5D0C8")
635                 self.butStart.bind("<Enter>", lambda event, x=self.butStart: x.configure(bg="#80A0FF"))
636                 self.butStart.bind("<Leave>", lambda event, x=self.butStart: x.configure(bg="#C5D0C8"))
637                 self.butStart.grid(row=2, column=3, columnspan=1, rowspan=1, padx=(150,0), pady=(100,0), sticky="w")
638
639             def questionTemplate(self):
640                 'Creates widgets for the basic template for the test questions.'
641
642                 self.lblQuestionNumber = tk.Label(self, text='', justify='left', font=EXTRA_LARGE_FONT, wraplength=300 )
643                 self.lblQuestionNumber.grid(row=0, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad, 50), pady=(self.__row0ypad,10), sticky='nw')
644
645                 self.lblQuestion = tk.Label(self, text='', justify='left', font=NORMAL_FONT, wraplength=600, height=6, width=100)
646                 self.lblQuestion.grid(row=1, column=0, columnspan=3, rowspan=1, padx=(0,0), pady=(0,10), sticky='nw')
647
648                 self.lblAnswerSelect = tk.Label(self, text='Select Answer:', justify='left', font=LARGE_FONT, wraplength=200)
649                 self.lblAnswerSelect.grid(row=2, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad, 50), pady=(0,20), sticky='nw')
650
651                 self.butNext = tk.Button(self, text="Next", font=LARGE_BUTTON_FONT, height= 2, width=15, relief=tk.GROOVE, bg="#C5D0C8")
652                 self.butNext.bind("<Enter>", lambda event, x=self.butNext: x.configure(bg="#80A0FF"))
653                 self.butNext.bind("<Leave>", lambda event, x=self.butNext: x.configure(bg="#C5D0C8"))
654                 self.butNext.grid(row=5, column=2, columnspan=1, rowspan=1, padx=(0,0), pady=(100,0), sticky="es")
655                 self.butNext.configure(command=lambda: self.nextQuestion())
656

```



```

657     self.createRadioButtons()
658
659     def createRadioButtons(self):
660         'Creates the radio button widgets used to select answers.'
661
662         styleEdit = ttk.Style()
663         styleEdit.configure('TRadiobutton', font=NORMAL_FONT)
664
665         self.__varAnswer = tk.StringVar()
666
667         self.radbutAnswer1 = ttk.Radiobutton(self, text='1', variable=self.__varAnswer, value='1')
668         self.radbutAnswer2 = ttk.Radiobutton(self, text='2', variable=self.__varAnswer, value='2')
669         self.radbutAnswer3 = ttk.Radiobutton(self, text='3', variable=self.__varAnswer, value='3')
670         self.radbutAnswer4 = ttk.Radiobutton(self, text='4', variable=self.__varAnswer, value='4')
671
672         self.radbutAnswer1.grid(row=3, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad,0), pady=(0,0), sticky="nw")
673         self.radbutAnswer2.grid(row=4, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad,0), pady=(15,0), sticky="nw")
674         self.radbutAnswer3.grid(row=3, column=1, columnspan=1, rowspan=1, padx=(50,0), pady=(15,0), sticky="nw")
675         self.radbutAnswer4.grid(row=4, column=1, columnspan=1, rowspan=1, padx=(50,0), pady=(15,0), sticky="nw")
676
677     def feedbacktemplate(self):
678
679         self.varFeedbackTitle = tk.StringVar()
680         self.varFeedbackTitle.set(self.__associatedModule.getModuleName() + " Test Feedback")
681
682         self.varFeedback = tk.StringVar()
683         self.varFeedback.set("Thank you for completing the test for the module " + self.__associatedModule.getModuleCode() + ". Please review each question and
look at the ones that you got wrong, if any.")
684
685         self.lblFeedbackTitle = tk.Label(self, textvariable=self.varFeedbackTitle, justify='center', font=EXTRA_LARGE_FONT, wraplength=400)
686         self.lblFeedbackTitle.grid(row=0, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad,50), pady=(self.__row0ypad,20), sticky="n")
687
688         self.lblFeedbackMessage = tk.Label(self, textvariable=self.varFeedback, justify='left', font=NORMAL_FONT, wraplength=400)
689         self.lblFeedbackMessage.grid(row=1, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad,50), pady=(20,50), sticky="w")
690
691         self.lblMarks = tk.Label(self, text='0/20', justify='left', font=EXTRA_LARGE_FONT)
692         self.lblMarks.grid(row=0, column=2, columnspan=1, rowspan=1, padx=(400,0), pady=(self.__row0ypad,20), sticky="w")
693
694         self.addListBox()
695
696         self.addDetailsTemplate()
697
698         self.butFeedbackMenu = tk.Button(self, text="Finished", font=LARGE_BUTTON_FONT, height= 2, width=15, relief=tk.GROOVE, bg="#C5D0C8")
699         self.butFeedbackMenu.bind("<Enter>", lambda event, x=self.butFeedbackMenu: x.configure(bg="#80A0FF"))
700         self.butFeedbackMenu.bind("<Leave>", lambda event, x=self.butFeedbackMenu: x.configure(bg="#C5D0C8"))
701         self.butFeedbackMenu.grid(row=6, column=2, columnspan=1, rowspan=1, padx=(300,0), pady=(75,0), sticky="w")
702
703     def addDetailsTemplate(self):
704
705         self.lblFeedbackQuestion = tk.Label(self, text='', justify='left', font=NORMAL_FONT, wraplength=500, height=5)
706         self.lblFeedbackQuestion.grid(row=1, column=2, columnspan=2, rowspan=1, padx=(40,50), pady=(20,20), sticky="w")
707
708         self.lblCorrectTitle = tk.Label(self, text='Correct Answer:', font=NORMAL_FONT, justify='left')
709         self.lblCorrectTitle.grid(row=2, column=2, columnspan=1, rowspan=1, padx=(40,0), pady=(25,0), sticky='w')
710
711         self.lblCorrect = tk.Label(self, text='', font=NORMAL_FONT, justify='left')
712         self.lblCorrect.grid(row=3, column=2, columnspan=1, rowspan=1, padx=(40,0), pady=(0,0), sticky='w')
713
714         self.lblGivenTitle = tk.Label(self, text='Selected Answer:', font=NORMAL_FONT, justify='left')
715         self.lblGivenTitle.grid(row=4, column=2, columnspan=1, rowspan=1, padx=(40,0), pady=(25,0), sticky='w')
716
717         self.lblGiven = tk.Label(self, text='', font=NORMAL_FONT, justify='left')
718         self.lblGiven.grid(row=5, column=2, columnspan=1, rowspan=1, padx=(40,0), pady=(0,0), sticky='w')
719
720     def addListBox(self):
721
722         self.listQuestions = tk.Listbox(self, height= 5, width=50, font=NORMAL_FONT, selectmode=tk.SINGLE)
723         self.scroll = ttk.Scrollbar(self)
724
725         self.listQuestions.configure(yscrollcommand=self.scroll.set)
726         self.scroll.configure( command= self.listQuestions.yview)
727
728         self.listQuestions.selection_set(0, tk.END)
729         self.listQuestions.focus_set()
730
731         self.listQuestions.grid(row=2, column=0, columnspan=1, rowspan=3, padx=(self.__column0xpad,0), pady=(25,0), sticky="nw")
732         self.scroll.grid(row=2, column=1, columnspan=1, rowspan=3, padx=(0,0), pady=(25,0), sticky="ns")
733
734         self.listQuestions.bind("<<ListBoxSelect>>", self.listQuestionClick)
735
736         pass
737
738     def listQuestionClick(self, event):
739
740         selected = self.listQuestions.curselection()
741         questionNumber = selected[0] + 1
742         test = self.__associatedModule.getModuleTest()
743         self.displayTestQuestionForFeedback(test, questionNumber)
744
745     def displayQuestionDetails(self, question):
746         'Edits widgets of the created in questionTemplate() with the details of the question passes as an argument'
747
748         self.lblQuestionNumber.configure(text='Question ' + str(question.getQuestionNumber()))
749         self.lblQuestion.configure(text=str(question.getQuestionInfo()))
750
751         answerList = []
752         answerList.append(question.getCorrectAnswer())
753         for answer in question.getIncorrectAnswers():
754             answerList.append(answer)
755
756         self.__varAnswer.set('')
757
758         answer = rdm.choice(answerList)
759         self.radbutAnswer1.configure(text=answer, value=answer)
760         answerList.remove(answer)
761
762         answer = rdm.choice(answerList)
763         self.radbutAnswer2.configure(text=answer, value=answer)
764         answerList.remove(answer)
765
766         answer = rdm.choice(answerList)

```

```

767     self.radbutAnswer3.configure(text=answer, value=answer)
768     answerList.remove(answer)
769
770     answer = rdm.choice(answerList)
771     self.radbutAnswer4.configure(text=answer, value=answer)
772     answerList.remove(answer)
773
774 def questionFeedback(self, question, givenAnswer, correct):
775     'Method used to display question feedback.'
776
777     popupFeedback = tk.Tk()
778     popupFeedback.geometry("500x400+500+200")
779     popupFeedback.grid()
780     popupFeedback.wm_title("Instant feedback!")
781
782     lblTitle = tk.Label(popupFeedback, text='Instant feedback', font=LARGE_FONT, justify='center')
783     lblTitle.grid(row=0, column=0, columnspan=1, rowspan=1, padx=(25,0), pady=(25,0), sticky="n")
784
785     lblQuestionTitle = tk.Label(popupFeedback, text='Question:', font=NORMAL_FONT, justify='left')
786     lblQuestionTitle.grid(row=1, column=0, columnspan=1, rowspan=1, padx=(25,0), pady=(25,0), sticky='w')
787
788     lblQuestion = tk.Label(popupFeedback, text=question.getQuestionInfo(), font=NORMAL_FONT, justify='left', wraplength=450)
789     lblQuestion.grid(row=2, column=0, columnspan=1, rowspan=1, padx=(25,0), pady=(0,0), sticky='w')
790
791     lblCorrectTitle = tk.Label(popupFeedback, text='Correct Answer:', font=NORMAL_FONT, justify='left')
792     lblCorrectTitle.grid(row=3, column=0, columnspan=1, rowspan=1, padx=(25,0), pady=(25,0), sticky='w')
793
794     lblCorrect = tk.Label(popupFeedback, text=question.getCorrectAnswer(), font=NORMAL_FONT, justify='left')
795     lblCorrect.grid(row=4, column=0, columnspan=1, rowspan=1, padx=(25,0), pady=(0,0), sticky='w')
796
797     lblGivenTitle = tk.Label(popupFeedback, text='Selected Answer:', font=NORMAL_FONT, justify='left')
798     lblGivenTitle.grid(row=5, column=0, columnspan=1, rowspan=1, padx=(25,0), pady=(25,0), sticky='w')
799
800     lblGiven = tk.Label(popupFeedback, text=givenAnswer, font=NORMAL_FONT, justify='left')
801     lblGiven.grid(row=6, column=0, columnspan=1, rowspan=1, padx=(25,0), pady=(0,0), sticky='w')
802
803     if correct:
804         lblGiven.configure(fg='blue')
805     else:
806         lblGiven.configure(fg='red')
807
808     butOkay = ttk.Button(popupFeedback, text="Okay", command = popupFeedback.destroy)
809     butOkay.grid(row=7, column=0, columnspan=1, rowspan=1, padx=(0,0), pady=(25,0), sticky="s")
810     butOkay.focus_set()
811
812 def promptAnswer(self):
813     'Method used to display question feedback.'
814
815     popupFeedback = tk.Tk()
816     popupFeedback.geometry("300x100+700+400")
817
818     popupFeedback.wm_title("Attention!")
819     labTitle = tk.Label(popupFeedback, text='You must select an answer\n before you can continue.', font=NORMAL_FONT)
820     labTitle.pack(side="top", pady=10)
821     butOkay = ttk.Button(popupFeedback, text="Okay", command = popupFeedback.destroy)
822     butOkay.pack()
823
824 def markQuestion(self, test, givenAnswer):
825     'Mark the current question with the answer given and correct answer.'
826     correct = test.checkAnswer(givenAnswer)
827     if correct:
828         test.incCurrentMark()
829     question = test.getQuestionDetails()
830     self.questionFeedback(question, givenAnswer, correct)
831
832 def displayTestQuestionForFeedback(self, test, questionNumber):
833     question = test.getQuestionDetails(questionNumber)
834     self.lblFeedbackQuestion.configure(text=question.getQuestionInfo())
835
836     correct = question.getCorrectAnswer()
837     selected = test.getSelectedAnswer(questionNumber)
838
839     self.lblCorrect.configure(text=correct)
840     self.lblGiven.configure(text=selected)
841
842     if selected == correct:
843         self.lblGiven.configure(fg='green')
844     else:
845         self.lblGiven.configure(fg='red')
846
847 def colourListBox (self, test):
848
849     for index in range(0, test.getNumberOfQuestions()):
850         correct = test.getQuestionDetails(index + 1).getCorrectAnswer()
851         selected = test.getSelectedAnswer(index + 1)
852
853         if selected == correct:
854             self.listQuestions.itemconfig(index, fg='blue')
855         else:
856             self.listQuestions.itemconfig(index, fg='red')
857
858 def displayTestData(self, test):
859
860     if self.listQuestions.size() != 0:
861         self.listQuestions.delete(0, self.listQuestions.size() - 1)
862     testLength = test.getNumberOfQuestions()
863
864     for item in range(1, testLength + 1):
865         self.listQuestions.insert(tk.END, 'Question ' + str(item) )
866
867     self.lblMarks.configure(text=str(test.getCurrentMark()) + '/' + str(test.getNumberOfQuestions()))
868
869     self.colourListBox(test)
870
871     self.displayTestQuestionForFeedback(test, 1)
872     self.listQuestions.activate(0)
873     self.listQuestions.index(0)
874
875 def nextQuestion(self):
876     'Method used when going to the next question.'
877     givenAnswer = self.__varAnswer.get()

```



```

878     test = self.__associatedModule.getModuleTest()
879     if givenAnswer == '':
880         self.promptAnswer()
881     else:
882         self.markQuestion(test, givenAnswer)
883         test.addSelectedAnswer(givenAnswer)
884         if test.getCurrentQuestionNumber() == test.getNumberOfQuestions() :
885             test.saveMarks('ForenameTest', 'SurnameTest')
886             self.hideQuestionTemplate()
887             self.displayTestData(test)
888             self.showFeedbackTemplate()
889         else:
890             test.incCurrentQuestion()
891             nextQuestionDetails = test.getQuestionDetails()
892             self.displayQuestionDetails(nextQuestionDetails)
893
894     def startTest (self):
895         'Method used to start the test.'
896         self.hideInstructions()
897
898         startingQuestion = self.__associatedModule.getModuleTest().getQuestionDetails()
899
900         self.displayQuestionDetails(startingQuestion)
901
902         self.showQuestionTemplate()
903
904     def showInstructions(self):
905         'Shows the instruction page widgets.'
906
907         self.lblTitle.grid()
908         self.lblMessage.grid()
909         self.butMenu.grid()
910         self.butStart.grid()
911
912     def showQuestionTemplate(self):
913         'Shows the question template widgets'
914
915         self.lblQuestionNumber.grid()
916         self.lblQuestion.grid()
917         self.butNext.grid()
918         self.lblAnswerSelect.grid()
919         self.radbutAnswer1.grid()
920         self.radbutAnswer2.grid()
921         self.radbutAnswer3.grid()
922         self.radbutAnswer4.grid()
923
924     def showFeedbackTemplate(self):
925
926         self.lblFeedbackTitle.grid()
927         self.lblFeedbackMessage.grid()
928         self.lblMarks.grid()
929         self.butFeedbackMenu.grid()
930         self.listQuestions.grid()
931         self.scroll.grid()
932         self.lblFeedbackQuestion.grid()
933         self.lblCorrectTitle.grid()
934         self.lblCorrect.grid()
935         self.lblGivenTitle.grid()
936         self.lblGiven.grid()
937
938     def hideInstructions(self):
939         'Hides the instruction page widgets'
940
941         self.lblTitle.grid_remove()
942         self.lblMessage.grid_remove()
943         self.butMenu.grid_remove()
944         self.butStart.grid_remove()
945
946     def hideQuestionTemplate(self):
947         'Hides the question template widgets'
948
949         self.lblQuestionNumber.grid_remove()
950         self.lblQuestion.grid_remove()
951         self.butNext.grid_remove()
952         self.lblAnswerSelect.grid_remove()
953         self.radbutAnswer1.grid_remove()
954         self.radbutAnswer2.grid_remove()
955         self.radbutAnswer3.grid_remove()
956         self.radbutAnswer4.grid_remove()
957
958     def hideFeedbackTemplate(self):
959
960         self.lblFeedbackTitle.grid_remove()
961         self.lblFeedbackMessage.grid_remove()
962         self.lblMarks.grid_remove()
963         self.butFeedbackMenu.grid_remove()
964         self.listQuestions.grid_remove()
965         self.scroll.grid_remove()
966         self.lblFeedbackQuestion.grid_remove()
967         self.lblCorrectTitle.grid_remove()
968         self.lblCorrect.grid_remove()
969         self.lblGivenTitle.grid_remove()
970         self.lblGiven.grid_remove()
971
972     def setCommands(self, controller, menu):
973
974         self.butMenu.configure(command=lambda: controller.show_frame(menu))
975         self.butStart.configure(command=lambda: self.startTest())
976         self.butFeedbackMenu.configure(command=lambda: controller.show_frame(menu))
977
978     class LessonModule001 (LectureFrame):
979
980         def __init__(self, parent, controller, mCode):
981             LectureFrame.__init__(self, parent, controller, mCode)
982             self.setCommands(controller, HomePage, TestModule001)
983
984         #//\\//\\//\\//\\//\\//\\#
985         #LESSON MODULE 002 CLASS#
986         #//\\//\\//\\//\\//\\//\\#
987
988     class LessonModule002 (LectureFrame):

```

```

989
990 def __init__(self, parent, controller, mCode):
991     LectureFrame.__init__(self, parent, controller, mCode)
992     self.setCommands(controller, HomePage, TestModule002)
993
994
995 #\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
996 #FEED BACK SUBMIT FRAME CLASS#
997 #\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
998
999 class FeedbackSubmitFrame(tk.Frame):
1000
1001     def __init__(self, parent, controller, moduleList):
1002         tk.Frame.__init__(self, parent)
1003
1004         self.__column0xpad = 90
1005         self.__row0ypad = 50
1006
1007         self.lblTitle = tk.Label(self, text='User Feedback', justify='center', font=EXTRA_LARGE_FONT, wraplength=400)
1008         self.lblTitle.grid(row=0, column=0, columnspan=2, rowspan=1, padx=(self.__column0xpad,50), pady=(self.__row0ypad,0), sticky="n")
1009
1010         self.lblMessage = tk.Label(self, text='Your feedback on this application would be appreciated', justify='left', font=NORMAL_FONT, wraplength=400)
1011         self.lblMessage.grid(row=1, column=0, columnspan=2, rowspan=1, padx=(self.__column0xpad,50), pady=(50,20),sticky="sw")
1012
1013
1014         self.butMenu = tk.Button(self, text="Back to Menu", font=LARGE_BUTTON_FONT, height= 2, width=15, relief=tk.GROOVE, bg="#C5D0C8")
1015         self.butMenu.bind("<Enter>", lambda event, x=self.butMenu: x.configure(bg="#80A0FF"))
1016         self.butMenu.bind("<Leave>", lambda event, x=self.butMenu: x.configure(bg="#C5D0C8"))
1017         self.butMenu.grid(row=8, column=0, columnspan=2, rowspan=1, padx=(self.__column0xpad,50), pady=(30,0), sticky="s")
1018
1019         self.butSubmit = tk.Button(self, text="Submit", font=LARGE_BUTTON_FONT, height= 2, width=15, relief=tk.GROOVE, bg="#C5D0C8")
1020         self.butSubmit.bind("<Enter>", lambda event, x=self.butSubmit: x.configure(bg="#80A0FF"))
1021         self.butSubmit.bind("<Leave>", lambda event, x=self.butSubmit: x.configure(bg="#C5D0C8"))
1022         self.butSubmit.grid(row=8, column=1, columnspan=3, rowspan=1, padx=(200,0), pady=(30,0), sticky="s")
1023         self.butSubmit.configure(command=lambda: self.submitFeedback())
1024
1025         self.addAnonymous()
1026         self.addNameOption()
1027         self.addListbox(moduleList)
1028         self.addFeedbackTextBox()
1029
1030     def addAnonymous(self):
1031         self.cbxAAnonymousvar = tk.IntVar()
1032         self.cbxAAnonymous = tk.Checkbutton(self, text='Select this box if you wish to remain anonymous', justify='left', font=NORMAL_FONT,
variable=self.cbxAAnonymousvar)
1033         self.cbxAAnonymous.grid(row=2, column=0, columnspan=2, rowspan=1, padx=(self.__column0xpad,0), pady=(50,0), sticky="sw")
1034         self.cbxAAnonymous.configure(command=lambda: self.checkboxClick())
1035
1036     def checkboxClick(self):
1037         if self.cbxAAnonymousvar.get() == 1:
1038             self.entNumber.configure(state=tk.DISABLED)
1039             self.entName.configure(state=tk.DISABLED)
1040         else:
1041             self.entNumber.configure(state=tk.NORMAL)
1042             self.entName.configure(state=tk.NORMAL)
1043
1044     def addNameOption(self):
1045
1046         self.lblName = tk.Label(self, text="Name", justify='left', font=NORMAL_FONT, wraplength=400)
1047         self.lblName.grid(row=3, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad,20), pady=(20,0), sticky="e")
1048
1049         self.entName = ttk.Entry(self, width=30)
1050         self.entName.grid(row=3, column=1, columnspan=1, rowspan=1, padx=(0,0), pady=(20,0), sticky="w")
1051
1052         self.lblNumber = tk.Label(self, text="Student Number", justify='left', font=NORMAL_FONT, wraplength=400)
1053         self.lblNumber.grid(row=4, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad,20), pady=(10,0), sticky="e")
1054
1055         self.entNumber = ttk.Entry(self, width=30)
1056         self.entNumber.grid(row=4, column=1, columnspan=1, rowspan=1, padx=(0,0), pady=(10,0), sticky="w")
1057
1058     def addListbox(self, moduleList):
1059
1060         self.listModulesLabel = tk.Label(self, text='Select module associated with your feedback or whether it is a general comment', justify='left',
font=NORMAL_FONT, wraplength=400)
1061         self.listModulesLabel.grid(row=1, column=2, columnspan=2, rowspan=1, padx=(0,0), pady=(0,20), sticky="sw")
1062
1063         self.listModules = tk.Listbox(self, height= 3, width=60, font=SMALL_FONT, selectmode=tk.SINGLE)
1064         self.scroll = ttk.Scrollbar(self)
1065
1066         self.listModules.configure(yscrollcommand=self.scroll.set)
1067         self.scroll.configure( command= self.listModules.yview)
1068
1069         self.listModules.selection_set(0, tk.END)
1070         self.listModules.focus_set()
1071
1072         self.listModules.grid(row=2, column=2, columnspan=2, rowspan=1, padx=(0,0), pady=(20,0), sticky="nw")
1073         self.scroll.grid(row=2, column=4, columnspan=1, rowspan=1, padx=(0,0), pady=(20,0), sticky="ns")
1074
1075         for mod in moduleList:
1076             self.listModules.insert(tk.END, mod)
1077         self.listModules.insert(tk.END, 'General Comment')
1078         self.listModules.insert(tk.END, 'Software Bug')
1079
1080
1081     def addFeedbackTextBox(self):
1082
1083         self.lblFeedback = tk.Label(self, text='Leave your comments in the box below', justify='left', font=NORMAL_FONT, wraplength=400)
1084         self.lblFeedback.grid(row=3, column=2, columnspan=1, rowspan=1, padx=(0,0), pady=(0,0), sticky="sw")
1085
1086
1087         self.txtbxFeedback = tk.Text (self, width=60, height=6 ,font=SMALL_FONT)
1088         self.scrollFeedback = ttk.Scrollbar(self)
1089
1090         self.txtbxFeedback.configure(yscrollcommand=self.scrollFeedback.set)
1091         self.scrollFeedback.configure( command= self.txtbxFeedback.yview)
1092
1093         self.butClear = ttk.Button(self, text="Clear")
1094         self.butClear.grid(row=3, column=3, columnspan=1, rowspan=1, padx=(0,0), pady=(0,0), sticky="s")
1095         self.butClear.configure(command=lambda: self.txtbxFeedback.delete('0.0', tk.END))
1096
1097         self.txtbxFeedback.grid(row=4, column=2, columnspan=2, rowspan=2, padx=(0,0), pady=(20,0), sticky="nw")

```

file:///C:/Users/c1545108/appdata/local/temp/tmpjgo6jk.html

```

1208
1209 def addFeedbackTextBox(self):
1210
1211     self.lblFeedback = tk.Label(self, text='Feedback:', justify='left', font=NORMAL_FONT, wraplength=400)
1212     self.lblFeedback.grid(row=2, column=2, columnspan=1, rowspan=1, padx=(30,0), pady=(0,0), sticky="sw")
1213
1214
1215     self.txtbxFeedback = tk.Text (self, width=60, height=10 ,font=SMALL_FONT, state=tk.DISABLED)
1216     self.scrollFeedback = ttk.Scrollbar(self)
1217
1218     self.txtbxFeedback.configure(yscrollcommand=self.scrollFeedback.set)
1219     self.scrollFeedback.configure( command= self.txtbxFeedback.yview)
1220
1221     # self.butClear = ttk.Button(self, text="Clear")
1222     # self.butClear.grid(row=3, column=3, columnspan=1, rowspan=1, padx=(0,0), pady=(0,0), sticky="s")
1223     # self.butClear.configure(command=lambda: self.txtbxFeedback.delete('0.0', tk.END))
1224
1225     self.txtbxFeedback.grid(row=3, column=2, columnspan=2, rowspan=3, padx=(30,0), pady=(20,0), sticky="nw")
1226     self.scrollFeedback.grid(row=3, column=4, columnspan=1, rowspan=3, padx=(0,0), pady=(20,0), sticky="ns")
1227
1228     self.emptybox = self.txtbxFeedback.get('0.0', tk.END)
1229
1230 def addListBox(self):
1231
1232     self.listFeedbackLabel = tk.Label(self, text='Select feedback to look at' , justify='left', font=NORMAL_FONT, wraplength=400)
1233     self.listFeedbackLabel.grid(row=2, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad,0), pady=(20,20), sticky="sw")
1234
1235     self.listFeedback = tk.Listbox(self, height= 3, width=60, font=SMALL_FONT, selectmode=tk.SINGLE)
1236     self.scroll = ttk.Scrollbar(self)
1237
1238     self.listFeedback.configure(yscrollcommand=self.scroll.set)
1239     self.scroll.configure( command= self.listFeedback.yview)
1240
1241     self.listFeedback.selection_set(0, tk.END)
1242     self.listFeedback.focus_set()
1243
1244     self.listFeedback.bind("<<ListBoxSelect>>", self.listFeedbackClick)
1245
1246     self.listFeedback.grid(row=3, column=0, columnspan=1, rowspan=1, padx=(self.__column0xpad,0), pady=(20,0), sticky="nw")
1247     self.scroll.grid(row=3, column=1, columnspan=1, rowspan=1, padx=(0,0), pady=(20,0), sticky="ns")
1248
1249 def fillListBoxWithFeedback(self):
1250     self.listFeedback.delete(0,tk.END)
1251     with open('appFeedback.csv') as csvfile:
1252         rdr = csv.reader(csvfile, delimiter=',')
1253         for row in rdr:
1254             try:
1255                 self.listFeedback.insert(tk.END, row[2] + ' - ' +row[0])
1256                 self.__allFeedback.append(row)
1257             except:
1258                 pass
1259
1260 def listFeedbackClick(self, event):
1261
1262     selected = self.listFeedback.curselection()
1263     feedbackIndex = selected[0]
1264     feedback = self.__allFeedback[feedbackIndex]
1265
1266
1267     self.lblName.configure(text = 'Name: ' + feedback[1])
1268     self.lblNumber.configure(text = 'Student Number: ' + feedback[0])
1269     self.lblReference.configure(text = 'Quick Description: ' + feedback[2])
1270     feedbackText = feedback[3]
1271     formattedFeedbackText = feedbackText.replace('|', '\n')
1272     self.txtbxFeedback.configure(state=tk.NORMAL)
1273     self.txtbxFeedback.delete('0.0', tk.END)
1274     self.txtbxFeedback.insert('0.0', formattedFeedbackText)
1275     self.txtbxFeedback.configure(state=tk.DISABLED)
1276
1277
1278 def setCommands(self, controller, menu):
1279     self.butMenu.configure(command=lambda: controller.show_frame(menu))
1280
1281
1282 #//\\//\\//\\//\\/#
1283 #EDITOR 001 CLASS#
1284 #//\\//\\//\\//\\/#
1285
1286 class Editor001(EditorFrame):
1287
1288     def __init__(self, parent, controller, mCode):
1289         EditorFrame.__init__(self, parent, controller, mCode)
1290         self.setCommands(controller, HomePage)
1291
1292 #//\\//\\//\\//\\/#
1293 #EDITOR 002 CLASS#
1294 #//\\//\\//\\//\\/#
1295
1296 class Editor002(EditorFrame):
1297
1298     def __init__(self, parent, controller, mCode):
1299         EditorFrame.__init__(self, parent, controller, mCode)
1300         self.setCommands(controller, HomePage)
1301
1302 #//\\//\\//\\//\\/#
1303 #TEST MODULE 001 CLASS#
1304 #//\\//\\//\\//\\/#
1305
1306 class TestModule001 (TestFrame):
1307
1308     def __init__(self, parent, controller, mCode, mName, lCompleted=False):
1309         TestFrame.__init__(self, parent, controller, mCode, mName, lCompleted)
1310         self.setCommands(controller, HomePage)
1311
1312 #//\\//\\//\\//\\/#
1313 #TEST MODULE 002 CLASS#
1314 #//\\//\\//\\//\\/#
1315
1316 class TestModule002 (TestFrame):
1317
1318     def __init__(self, parent, controller, mCode, mName, lCompleted=False):

```

file:///C:/Users/c1545108/appdata/local/temp/tmpjgo6jk.html

file:///C:/Users/c1545108/appdata/local/temp/tmpjgo6jk.html


```
1539         elif value == "White":
1540             colourBG = "#FFFFFF"
1541         elif value == "Peach":
1542             colourBG = "#FFDCB9"
1543         self.master.change_background(colourBG)
1544
1545         # Change page
1546         self.master.change_page('introduction')
1547
1548
1549 def main():
1550     # Create window
1551     window = tkinter.Tk()
1552     app = Settings(master=window)
1553     # Window title
1554     window.title("Settings")
1555     # Window size
1556     window.geometry("300x600")
1557     # Window icon
1558     window.wm_iconbitmap('Icon.ico')
1559     # Draw the window, start application
1560     app.mainloop()
1561     window.destroy()
1562
1563
1564 #\/\/\/\/\/\/\/\/#
1565 #MAIN FUNCTION#
1566 #\/\/\/\/\/\/\/\/#
1567
1568 def main():
1569
1570     app = Application()
1571     app.geometry("417x440+450+90")
1572     app.configure(background = 'blue')
1573     app.mainloop()
1574
1575 if __name__ == "__main__":
1576     main()
```