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from tkinter import
import pygame
from tkinter import filedialog
root = Tk()
root.title('MP3 Player: Project #3')
root.iconbitmap('c:/gui')#help
root.geometry("700x500")
#allows the program to use Pygame Mixer.
pygame.mixer.init()
#allows the user to add a song to the playlist.
def add song():
  song = filedialog.askopenfilename(initialdir = 'C:/audio/', title = "Choose a song", filetypes =
(("mp3 Files", "*.mp3"),))#help
  #removes the directory info, replaces with the song name.
  song = song.replace("c:/gui/audio/","")
  song = song.replace(".mp3","")
  #adds the song to the listbox
  music_box.insert(END, song)
#add many multiple songs to the listbox.
def add_many_songs():
  songs = filedialog.askopenfilenames(initialdir = 'C:/audio/', title = "Choose a song", filetypes =
(("mp3 Files", "*.mp3"),))
  #loops through the song list & is able to replace directory information and mp3.
  for song in songs:
     song = song.replace("c:/gui/audio/","")
     song = song.replace(".mp3","")
     #inserts songs into the playlist.
     music box.insert(END, song)
#plays the selected song
def play():
  song = music box.get(ACTIVE)
  song = f'C:/gui/audio/{song}.mp3'
  pygame.mixer.music.load(song)
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pygame.mixer.music.play(loops = 0)
#stops playing the selected song
def stop():
  pygame.mixer.music.stop(song)
  music_box.selection_clear(ACTIVE)
#skips to the next song in the playlist.
def next_song():
  next choice = music box.curselection()
  next choice = next choice[0]+1
  #grabs song name from the playlist.
  song = music box.get(next choice)
  song = f'C:/gui/audio/{song}.mp3'
  pygame.mixer.music.load(song)
  pygame.mixer.music.play(loops = 0)
  music box.selection clear(0, END)
  music_box.activate(next_choice)
  #plays the next song.
  music_box.selection_set(next_choice, Last=None)
  #plays the previous song.
def previous_song():
    next choice = music box.curselection()
  next_choice = next_choice[0]-1
  song = music_box.get(next_choice)
  song = f'C:/gui/audio/{song}.mp3'
  pygame.mixer.music.load(song)
  pygame.mixer.music.play(loops = 0)
  music box.selection clear(0, END)
  music_box.activate(next_choice)
  music_box.selection_set(next_choice, Last=None)
#deletes a song.
def delete_song():
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music box.delete(ANCHOR)
  #stops music if it's playing.
  pygame.mixer.music.stop()
#deletes all songs.
def delete_all_songs():
  music box.delete(0, END)
  #stops music if its playing.
  pygame.mixer.music.stop()
#creates global pause variable.
global paused
paused = False
#pause & unpause the song the user is listening to.
def pause(is paused):
  global paused
  paused = is_paused
  if paused:
     pygame.mixer.music.unpause()
     paused = False
  else:
     pygame.mixer.music.pause()
     paused = true
#creating what the playlist box looks like.
music box = Listbox(root, bg = "black", fg = "white", width = 60, selectbackground = "silver",
slectforeground = "black") #background color is black, foreground color is white.
music\_box.pack(pady = 20)
#initializing the controls of the mp3 player (play, pause, skip, rewind, and stop).
play_btn_img = PhotoImage(file = )
rewind btn img = PhotoImage(file = )
skip_btn_img = PhotoImage(file = )
pause btn img = PhotoImage(file = )
stop_btn_img = PhotoImage(file = )
#allows for player controlled frame.
controls frame = Frame(root)
controls frame.pack()
#allows for player controlled buttons.
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play button = Button(controls frame, image = play btn img, borderwidth=0, command = play)
rewind_button = Button(controls_frame, image = rewind_btn_img, borderwidth=0, command =
previous song)
skip button = Button(controls frame, image = skip btn img, borderwidth=0, command =
next choice)
pause button = Button(controls frame, image = pause btn img, borderwidth=0, command =
lambda: pause(paused))
stop button = Button(controls frame, image = stop btn img, borderwidth=0, command = stop)
play button.grid(row = 0, column = 0, padx=8)
rewind button.grid(row = 0, column = 1, padx=8)
skip button.grid(row = 0, column = 2, padx=8)
pause button.grid(row = 0, column = 3, padx=8)
stop_button.grid(row = 0, column = 4, padx=8)
#creates the menu.
my menu = Menu(root)
root.config(menu=my menu)
#adds song menu.
add song menu = Menu(my menu)
my_menu.add_cascade(label= "Add Songs!", menu = add_song_menu)
add song menu.add command(label = "Add a Song to the Playlist!", command = add song)
#allows users to add multiple songs instead of one.
add song menu.add command(label = "Add some Song to the Playlist!", command =
add_many_songs)
#allows the user to remove songs.
remove song menu = Menu(my menu)
my menu.addcascade(Label = "remove Songs", menu = remove song menu)
remove_song_menu.add_command(Label = "Delete a Song from the playlist", command =
delete song)
remove song menu.add command(Label = "Delete all Songs from the playlist", command =
delete all songs)
root.mainloop
```