Test	Date	Objective	Step Description	Data Entered	Expected Result	Actual Result	Fail Reason
1	first test 7/13/2024	Create new customer	Enter new customer ID	5	Customer ID added to .db	pass	
	Retest 7/21/2024		Enter customer first name	Tracie	name added to .db	pass	
			Enter customer phone	3175551212	phone accepted	fail 7/13/2024 pass 7/21/2024	Specific phone format is expected but that format expectation isn't in the GUI label and isn't enforced in the form entry field; had to re-enter with dashes as required. Fixed 7/21/2024
			Enter vehicle make	Honda	vehicle make added to .db	pass	
			Enter vehicle model	Civic	vehicle model added to .db	pass	
			Enter vehicle year	2014	vehicle year added to .db	pass	
			Check .db for data entry		all data above should be entererd into customer database	pass	
			Click refresh button to clear form to add next customer		gui form should clear	fail 7/13/2024 fail 7/21/2024	New customer form does not clear after refresh button is pressed and customer is added to .db
2	first test7/13/2024	Create new customer	Enter new customer ID	125	Customer ID added to .db	pass	
	retest 7/21/2024		Enter customer first and last name	Lindsay Moreno	name added to .db	pass	
			Enter customer phone	252-563-8671	phone accepted	pass	
			Enter vehicle make	Subaru	vehicle make added to .db	pass	
			Enter vehicle model	Outback	vehicle model added to .db	pass	
			Enter vehicle year	2009	vehicle year added to .db	pass	
			Check .db for data entry		all data above should be entererd into customer database	pass	
			Check customer list for new customer info		New customer name, phone, and vehiclie info should appear in list	fail 7/13/2024	7/13/2024 : Does not appear in list on entry. DOES appear after refresh button is pressed, however ALL entries are refrshed, so now we have duplicate copies of the existing customers along with the first entry for the new customer.
			retest 7/21/2021			fail 7/21/2024	New customer appears in list, only new customer appears however new vehicle does not appear in GUI although it is added to the backend db.
3	7/13/2024	Add service	Enter a vehicle ID and service	id: 5, service: oil change	selected service and associated cost should appear in view field at bottom of gui along with vehicle information	fail;	traceback message received; code not working properly
	retest 721/						
4	7/13/2024	Review customer info	Click View Customer Info Tab	click View Customer Info	Customer list should open	pass	
				review list	List should contain a single entry for each customer	fail	customer entries appear multipe times
						/	
5	7/13/2024	New Customer; Vehcile with numbers in Model name	Enter new customer ID	6	Customer ID added to .db	pass	
			Enter customer first and last name	James Cole	name added to .db	pass	
			Enter customer phone	216-225-0327	phone accepted	pass	
			Enter vehicle make	Nissan	vehicle make added to .db	pass	
			Enter vehicle model	200 SX	vehicle model added to .db	pass	
			Enter vehicle year	1984	vehicle year added to .db	pass	
			Check .db for data entry		all data above should be entererd into customer database	pass	

7/13/2024

7/21/2024


```
PS C:\Users\traci\OneDrive\Documents\IvyTech\SDEV220\M08_FinalProject\API_Project> & c:/Users/traci/OneDrive/Documents/IvyTech/SDEV220/M08_
FinalProject/API_Project/.venv/Scripts/python.exe c:/Users/traci/OneDrive/Documents/IvyTech/SDEV220/M08_FinalProject/API_Project/GUI_v3.py
Exception in Tkinter callback
Traceback (most recent call last):
  File "C:\Program Files\Python312\Lib\tkinter\__init__.py", line 1967, in __call__
    return self.func(*args)
           ^^^^^^^^^^^^^^^^
  File "c:\Users\traci\OneDrive\Documents\IvyTech\SDEV220\M08_FinalProject\API_Project\GUI_v3.py", line 118, in add_service
    insert_service()
  File "c:\Users\traci\OneDrive\Documents\IvyTech\SDEV220\M08_FinalProject\API_Project\GUI_v3.py", line 105, in insert_service
    repair_cost = c.fetchone()[0]
                  ~~~~~~~~~~~~~^^^
TypeError: 'NoneType' object is not subscriptable
```

			Check customer list for new customer info		New customer name, phone, and vehiclie info should appear in list	fail	Does not appear in list on entry. DOES appear after refresh button is pressed, however ALL entries are refrshed, so now we have duplicate copies of the existing customers along with the first entry for the new customer.	
							Additional question: What's going on with the vehicle field in the database? Is the nubmer in this field a vehicle ID number that is used in a different table or is the database somehow adding vechiles every time the GUI is refreshed?	
6	7/20/2024	Add service	Enter vehicle ID	ID: 5			Vehicle doesn't exist in the version of the database I downloaded this morning. I should have received an error message.	
			Select service	Oil Change	selected service and associated cost should appear in view field at bottom of gui along with vehicle information	fail	Method for selecting a service to add to a vehicle isn't clear in the GUI.	