

Automobile Service Billing

A

Project Report Submitted to



Mandsaur University, Mandsaur
Towards Partial Fulfillment for the Award of
Bachelor of Computer Application

Submitted To:

Mr. Hemant Bairagee

Asst. Prof. Computer Application Department

Submitted By:

Shiva Hari V Mohan

Enroll. No. 18CSA3BCA1025

Department of Computer Application

Mandsaur University, Mandsaur

2019-20

CERTIFICATE

The Dissertation entitled "**Automobile Service Billing**" being submitted by **Shiva Hari V Mohan** (Enrollment No. **18CSA3BCA1025**) has been examined by us and is hereby approved for the award of degree **Bachelor of Computer Application** for which it has been submitted. It is understood that by this approval the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein, but approve the dissertation only for the purpose for which it has been submitted.

Internal Examiner

Date:

External Examiner

Date:

DISSERTATION APPROVAL SHEET

The dissertation work entitled “**Automobile Service Billing**” submitted by **Shiva Hari V Mohan** (Enrollment No. **18CSA3BCA1025**) is approved as partial fulfillment for the award of the **Bachelor of Computer Application** degree by Mandsaur University, Mandsaur (M.P).

Approved by

Prof. Nilesh Jain
(HOD CA)

DECLARATIONS

I hereby declare that the work, which is being presented in the dissertation, entitled “**Automobile Service Billing**” partial fulfillment of the requirements for the award of degree of **Bachelor of Computer Application** submitted in the **Department of Computer Application (Mandsaur University, Mandsaur)** is an authentic record of my own work carried under the guidance of **Mr. Hemant Bairagee**. I have not submitted the matter embodied in this report for award of any other degree.

Shiva Hari V Mohan
(18CSA3BCA1025)

ACKNOWLEDGEMENT

I take the opportunity to express my cordial gratitude to **Prof. Nilesh Jain**, HOD Department of Computer Application, Mandsaur University, Mandsaur (M.P.) for the valuable guidance and inspiration throughout the dissertation work. I feel thankful for his innovative ideas, which led to successful completion of this work.

I give special thanks to **Prof. B. K. Sharma**, Assoc. Prof., Department of Computer Application, Mandsaur University, Mandsaur (M.P.) to always being willing to help find solutions to any problems I had with my work.

I would also like to thanks **Prof. Deepak Mehta** Assistant Professor, Department of Computer Application, Mandsaur University, Mandsaur (M.P.) for providing additional guidance and insight into my research work.

I express my gratitude and thanks to all the staff members of Computer Science & Engineering department for their sincere cooperation in furnishing relevant information to complete this dissertation well in time successfully.

Lastly but not least I must express my cordial thank to my parent, family members and friends who gave me the moral support without which it was impossible to complete my project work. With this note I thank everyone for the support.

Shiva Hari V Mohan

ABSTRACT

The Project “Automobile Services Billing” deals with the automation of Automobile’s Workshop. This software will help operators in managing the Records pertaining to his/her customer. The product will help the user to work in a highly effective and efficient environment.

The operators have been recording the customer information in the past and even in the present through their personal manual efforts. And indeed, it consumes their considerable time and energy that could be utilized in the better productive activities. Apart from that, with increasing customer Strength, the task of managing information of each individual customer is indeed a cumbersome task.

There is a lot of reason for the introduction of this project. In the manual System, there are number of inefficiencies that a operator faces. The information retrieval is one of the foremost problems. It is very difficult to gather the overall performance reports of the customer. Large records-books have to be maintained where relevant and irrelevant information has to be stored which is very untidy and clumsy process.

On the other hand, there are many inherent problems that exist in any manual system. Usually, they lack efficiency. Less efficiency has a great impact on the productivity of any human being keeping the data up-to-date.

The automation deals with all such problems and tries to remove them in the best suitable fashion. The new system will cater to the need of the operator of any workshop so that they can manage the system efficiency.

The project “Automobile Service Billing” is developed with the objective of making the system reliable, easier, fast, and more informative.

Keywords: Automation, highly effective, efficient environment, reliable, fast, more informative

CONTENTS

	Page No
Certificate	i
Dissertation Approval Sheet	ii
Declaration	iii
Acknowledgement	iv
Abstract	v
List of Figures	viii

TABLE OF CONTENTS

CHAPTER 1: INTRODUCTION	01 - 02
1.1 Aim of Project	01
1.2 Statements of Problem	02
1.3 Future Scope	02
CHAPTER 2: ANALYSIS	03 - 04
2.1 Software Process Model	03
2.2 Advantages of Model	03
2.3 Disadvantages of Model	03
2.4 Product Perspective	04
CHAPTER 3: REQUIREMENT SPECIFICATION	05
3.1 Requirement Analysis	05
3.2 Software Specifications	05
3.3 Hardware Specifications	05
CHAPTER 4: FEASIBILITY ANALYSIS	06 - 07
4.1 Technical Feasibility	06
4.2 Economic Feasibility	07
4.3 Behavioral Feasibility	07

CHAPTER 5: TECHNOLOGY USED	08
5.1 Selection of Platform	08
5.2 Tool Selection	08
5.3 Database Used	08
CHAPTER 6: PLANNING AND DESIGNING	09-16
6.1 Planning	09
6.2 Designing	09
6.3 Entity Relationship Diagram	12
6.4 Data Flow Diagram	13
6.4.1 DFD Level 0	13
6.4.2 DFD Level 1	13
6.4.3 DFD Level 2	14
6.5 Use Case Diagram	15
6.5.1 Use Case for Operator	15
CHAPTER 7: IMPLEMENTATION	16– 59
CHAPTER 8: TESTING	60 - 61
8.1 Login Page Test Case Diagram	60
8.2 Bill Page Test Case Diagram	61
CHAPTER 9: LIMITATIONS OF PROJECT	62
CHAPTER 10: CONCLUSION	62
CHAPTER 11: BIBLIOGRAPHY/REFERENCES	63

LIST OF FIGURES

Figure No.	Title	Page No.
2.1	Water Fall Model	4
6.1	Login Page	9
6.2	Bill App Page	10
6.3	Invoice Format	11
6.4	ER-Diagram	12
6.5	DFD Level 0	13
6.6	DFD Level 1	13
6.7	DFD Level 2	14
6.8	Use Case Diagram	15
7.1	Login Page Code	16
7.2	Bill App Page Code	18
7.3	Data Base Structure and Data	55
8.1	Login Page Test Case Diagram	60
8.2	Bill Page Test Case Diagram	61

Chapter 1

INTRODUCTION

1.1 Aim of Project

Billing Services send bills to your customers and you want them paid quickly -- that's why efficiency in your billing process is key. Ultimately, the quicker your business can get invoices to customers and clients, the faster your business will be paid, which will have a positive impact on cash flow. Delays in payments can even put your business at stake.

An efficient invoicing system will automatically compile costs and quotes, and then generate invoices from this data. This greatly reduces the number of people required to produce quotes, thereby reducing the chance for human error. This in turn saves your business time, which saves your business money.

The aim of this project is to create an application that should provide service to the Operators and generate invoices.

The main objectives of the project are:

- To illustrate and analyze the basic billing system and the main functionalities that surround the billing system from a business prospective and explains how each interacts to complete the billing cycle.
- To develop a billing system emulator that can bill more quickly and accurately.
- To update customer record
- To develop a billing system that enables customer to view bill information.
- Add and maintain records of available products.
- Add and maintain customer details.
- Add and maintain description of new products.
- Add and maintain new entered category of products.
- Provides economic/financial reports to the owner monthly or weekly and yearly.
- Provides a convenient solution of billing pattern.
- Make an easy to use environment for users and customers.

1.2 Statements of Problem

1. **Overcharging:** - The billing system is a very sensitive part and it is faced with a lot of challenges like the overcharging which makes customers/ users complain. This problem may arise from the rating, that is rate given to each call lines and the time by the inaccuracy of the billing system.
2. **Poor customer service:** - Most of the billing systems have poor customer service thereby not given room for customer complaint and attention to their complaints therefore, a Report Generation system will be developed for the user and management of eBilling and Invoicing System. This system will have both details and summary type reports for analysis of the data calculated.
3. **Security and Simplicity:** - Customer, Products, and Billing Generation i.e. it will Automate the current manual bill generation system and maintain the searchable customer, charge database and charge invoice, maintain the data security, user rights.

1.3 Future Scope

1. This project will help the Operators of Workshop in fast billing.
2. This project enables Operators of Workshop to maintain a great database of all Customers visited and purchase product from store.
3. Project will enable to see report regarding product and category.
4. It is easy to maintain in future prospect.

Chapter 2

ANALYSIS

2.1 Software Process Model

A software process model is a simplified representation of a software process. Each model represents a process from a specific perspective.

Waterfall Model

The waterfall model is a popular version of the systems development life cycle model for software engineering. Often considered the classic approach to the systems development life cycle, the waterfall model describes a development method that is linear and sequential. Waterfall development has distinct goals for each phase of development. Imagine a waterfall on the cliff of a steep mountain. Once the water has flowed over the edge of the cliff and has begun its journey down the side of the mountain, it cannot turn back. It is the same with waterfall development. Once a phase of development is completed, the development proceeds to the next phase and there is no turning back.

2.2 Advantages of Model

- It allows for departmentalization and managerial control.
- Simple and easy to understand and use.
- Easy to manage due to the rigidity of the model – each phase has specific deliverables and a review process.
- Phases are processed and completed one at a time.
- Works well for smaller projects where requirements are very well understood.
- A schedule can be set with deadlines for each stage of development and a product can proceed through the development process like a car in a car-wash, and theoretically, be delivered on time.

2.3 Disadvantages of Model

- It does not allow for much reflection or revision.
- Once an application is in the testing stage, it is very difficult to go back and change something that was not well-thought out in the concept stage.
- No working software is produced until late during the life cycle.
- High amounts of risk and uncertainty.
- Not a good model for complex and object-oriented projects.
- Poor model for long and ongoing projects.
- Not suitable for the projects where requirements are at a moderate to high risk of changing.

2.4 Product Perspective

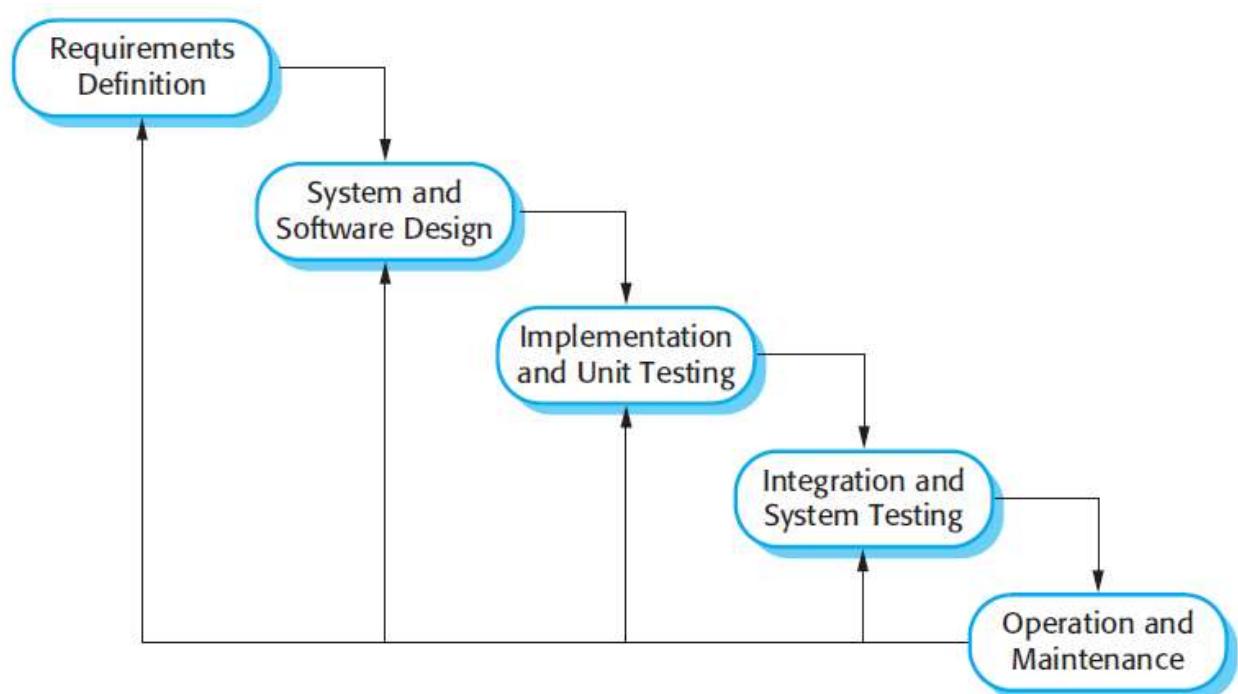


Fig: - 2.1

Chapter 3

REQUIREMENT SPECIFICATION

3.1 Requirement Analysis

Requirement analysis is significant and essential activity after elicitation. We analyze, refine, and scrutinize the gathered requirements to make consistent and unambiguous requirements. This activity reviews all requirements and may provide a graphical view of the entire system. After the completion of the analysis, it is expected that the understandability of the project may improve significantly. Here, we may also use the interaction with the customer to clarify points of confusion and to understand which requirements are more important than others.

3.2 Software Specifications

1. Web browser: Google Chrome
2. Languages Used: Python 3.7
3. PyCharm (for compiling and executing the programs)
4. PDF Reader: Google Chrome or Adobe Acrobat Reader (Used as system default PDF reader)

Operating System:

- Windows XP
- Windows 7
- Windows 8

Or any other version

3.3 Hardware Specifications

CPU configuration

- AMD processors 4000+ series
- RAM 1 GB DDR2 Monitor
- Any monitor

Chapter 4

FEASIBILITY ANALYSIS

The feasibility study is carried out to test whether the proposed system is worth being implemented. Feasibility study is a test of system proposed regarding its work ability, its impact on the organization ability to meet user needs and effective use of resources. It is usually carried out by a small number of people who are familiar with the information system techniques, understand the part of the business or organization that will be involved or effected by the project and are skilled in the system analysis and design process. The key consideration involve in the feasibility study are:

1. Technical
2. Behavioral
3. Economic

4.1 Technical Feasibility

Technical feasibility centers on the existing computer system (hardware, Software, etc.) and to what extent it can support the proposed system Addition. For example, if the current system is operating at 70% capacity (an Arbitrary value), then another application could overload the system or require additional hardware. If the budget is serious constrain then the project is judged not feasible.

The technologies and the environment which are used in this project are

SOFTWARE

Front End

1. Language used: Python 3.7.

Operating System:

Platform: Windows 10.

Our system requires window operating system, which is easily available.

Hardware:

Intel based processor-run computer system, which have keyboard and mouse as input devices. This has been decided for its ease of availability and up-gradation. The various registers maintained at the different department have enough information recording, which will help in digitizing the available data.

4.2 Economic Feasibility

The procedure is to determine the benefits and savings that are expected from a candidate system and compare it with the costs. If a benefit outweighs costs, then the decision is made to design and implement the system.

Otherwise further alterations are made in the proposed system

1. Manpower cost
2. Hardware and software cost.

4.3 Behavioral Feasibility

An evaluation of the behavior of the end users, which may effect the Envelopment of the system. People are inherently resistant to change and Computers have to know to facilitate changes and computers have to known To facilitate changes. An estimate should be made of how strong a reaction The user staffs is likely to have towards the development of a computerized System. It is a common knowledge that a computer installation has something to do with turnover, transfer, retraining and changes in employee job status, therefore the introduction of a candidate system requires special effort to educate, sell and train the staff on new ways of conducting business. The personal of the user organization will be affected by the proposed system. As the aim of the system is only to satisfy the information needs, no employees will loose their position by the proposed system. In fact the proposed system will help the organization in reducing the voluminous work involved. Also the involvement of users in every stage of the project is going to increase the success factor.

The staff in not well educated for running a computerized system. They are adamant in perceiving a mechanical process of working as they have long been used to the manual entry system. This aspect needs considerable amount of attention.

Our system is also feasible for organization because it supports of the organization and its strategic plan.

Chapter 5

TECHNOLOGY USED

5.1 Selection of Platform

Python 3.7 as a Platform. Python is a cross-platform language: A Python program written on a Macintosh computer will run on a Linux system and vice versa. Python programs can run on a Windows computer, as long as the Windows machine has the Python interpreter installed (most other operating systems come with Python pre-installed).

5.2 Tool Selection

Dependencies used as tools are: -

1. Tkinter Framework
2. Report lab Library
3. Google Chrome (as PDF reader tool)

5.3 Database Used

MYSQL 8.0 as Database. MySQL is a relational database management system (RDBMS) based on the SQL (Structured Query Language) queries. It is one of the most popular languages for accessing and managing the records in the table. MySQL is open-source and free software under the GNU license. Oracle Company supports it.

Chapter 6

PLANNING AND DESIGNING

6.1 Planning

A Software Project is the complete methodology of programming advancement from requirement gathering to testing and support, completed by the execution procedures, in a specified period to achieve intended software product.

The Project "Automobile Service Billing" is considered under same circumstances which involve various steps: -

1. Designing Login Page.
2. Designing Bill app page on the basis of user's comfort.
3. Designing the invoice which can be printed or can be shared as PDF.
4. Writing Code in Single Class "Bill App".
5. Making Different Functions for each and every Operations.
6. Making Of only Two Forms.
7. Making Of 10 Different Tables in MySQL Data Base for Management of Data.
8. Functions Like Auto Calculation, Parts Search Operations involved in it with less human errors.

6.2 Designing



Fig: - 6.1

Automobile Service Billing

Automobile Service Billing

Customer Details

Customer Name	Ayush Sharma	Phone No.	9826204582	Address	A-34,Gandhi Nagar,Mandsaur,MP,458001
---------------	--------------	-----------	------------	---------	--------------------------------------

Vehical Details

Class	Bike
Brand	TVS
Model	Apache RR 310
Year	2018
Colour	Phantom Black
Fuel	Petrol

Job Card

Total Km. 12000 Search

JOBs PERFORMED:

SNo.	Job Name	Hours	Rate	Amount
1	Labour	5	70.00	350.0

PARTS PURCHASED:

#Part	Part Name	Quant.	Rate	Amount
10011	Side Stand	1	315.00	315.0
10014	Silencer Assy	1	1656.00	1656.0
10013	Grip Set	1	57.00	57.0

Past Record

Registration No.* MP14MK9564

Date	Time	#Invoice	Total KM
2020-05-19	17:38:50	21548	12000
2020-01-21	17:38:50	21958	10000
2019-11-21	17:38:50	21258	8000

Bill Menu

Total Labour Charges	350.0	Labour's 28% GST	98.0
Total Parts Charges	2028.0	Part's 28% GST	567.84
Grand Total	3043.84		

Save Generate Bill Clear Exit

Fig: - 6.2

Shiva Auto Services

The Art of Performance

INVOICE

DATE

15 May 2020

INVOICE # INV-00-12345

CUSTOMER INFO

VEHICLE INFO

NAME: Ayush Sharma

BRAND TVS

ADDRESS: A-34 ,Gandhi Nagar janta colony mandsaur Mandhya-
Pradesh Mandsaur, MP, 458001

MODEL Apache RR 310

YEAR 2018

PHONE NO: 9826204582

COLOR Phantom Black

CC 312.20

REG# MP14MK9564

KM 12000

Job Performed

Hours

Rate

Amount

Labour	2	75.00	150.00
			-
			-
			-
			-
			-
			-
			-

SUBTOTAL \$ 150.00

GST 28% 42.00

PART

PART NAME

QTY

UNIT PRICE

AMOUNT

12345	Part Name 1	1	34.00	34.00
67890	Part Name 2	2	17.55	35.10
				-
				-
				-
				-
				-
				-

SUBTOTAL \$ 69.10

GST 28% 6.50

COMMENTS

Please include the invoice number as reference when paying online or by check

TOTAL LABOUR \$ 150.00

TOTAL PARTS \$ 69.10

GST \$ 13.50

TOTAL \$ 232.60

Thank you for your business!

Make all checks payable to
Shiva Auto Services

Should you have any enquiries concerning this invoice, please contact Mr. Shiva on 9562458585

127, Juhu Street, Indira Nagar, Housing Colony, Mandsaur, M.P, India, 458001

Tel: +91 9654895656 Fax: 2-555-898-2635 Email: info@shivaautoservices.com Web: www.shivaautoservices.com

Fig: - 6.3

6.3 Entity Relationship Diagram

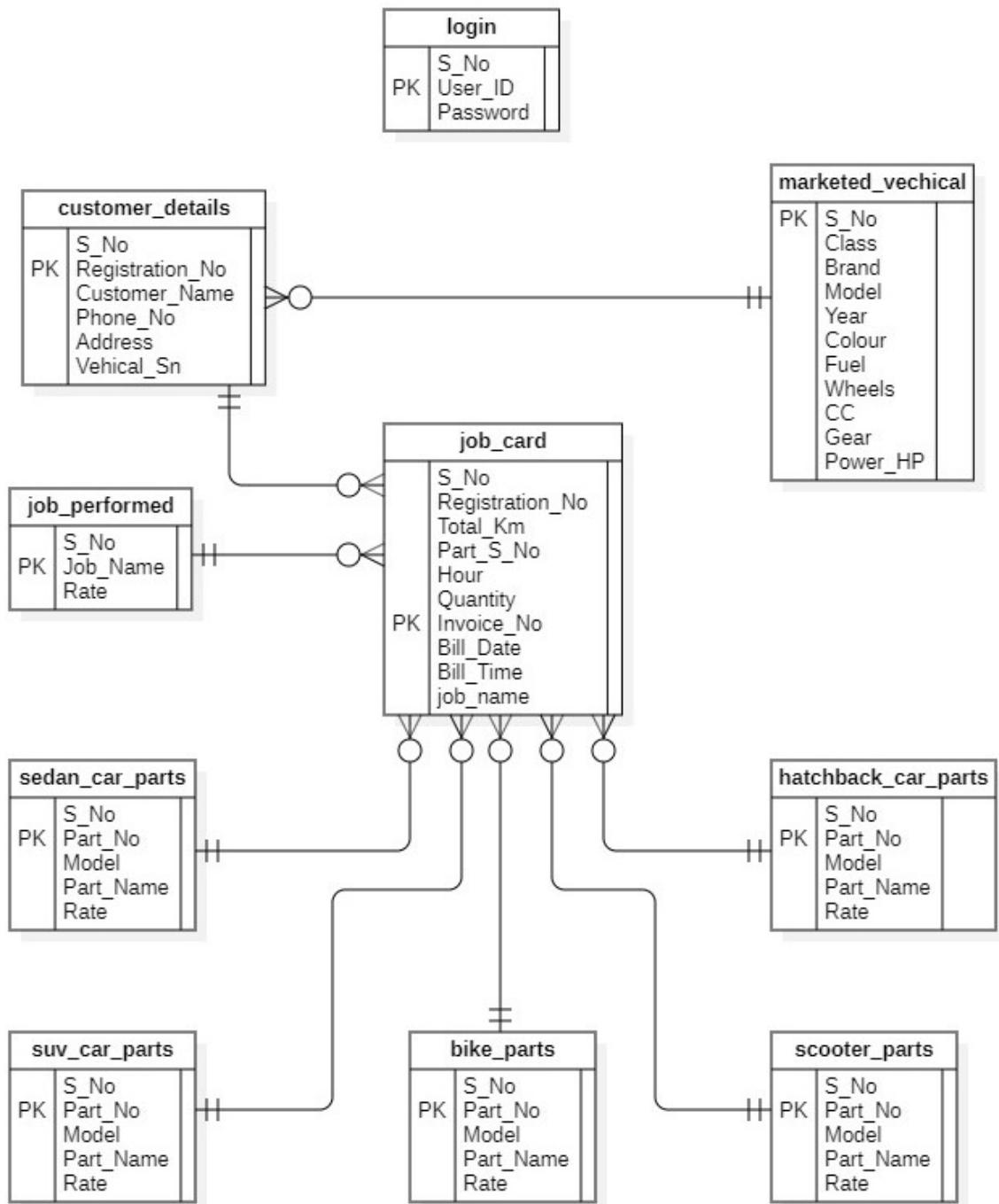


Fig: - 6.4

6.4 Data Flow Diagram

6.4.1 DFD Level 0

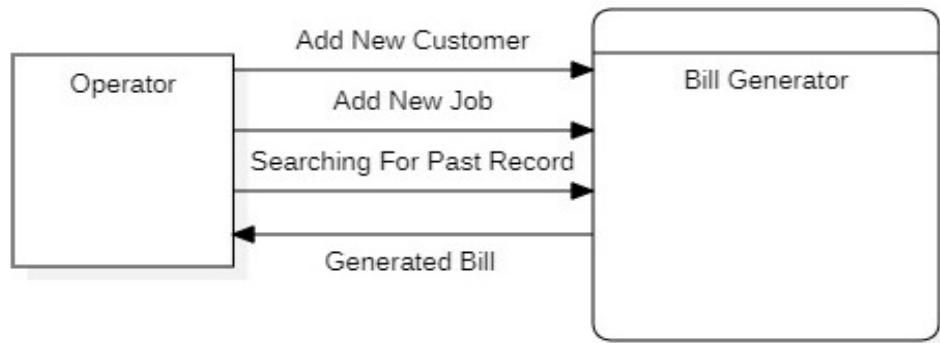


Fig: - 6.5

6.4.2 DFD Level 1

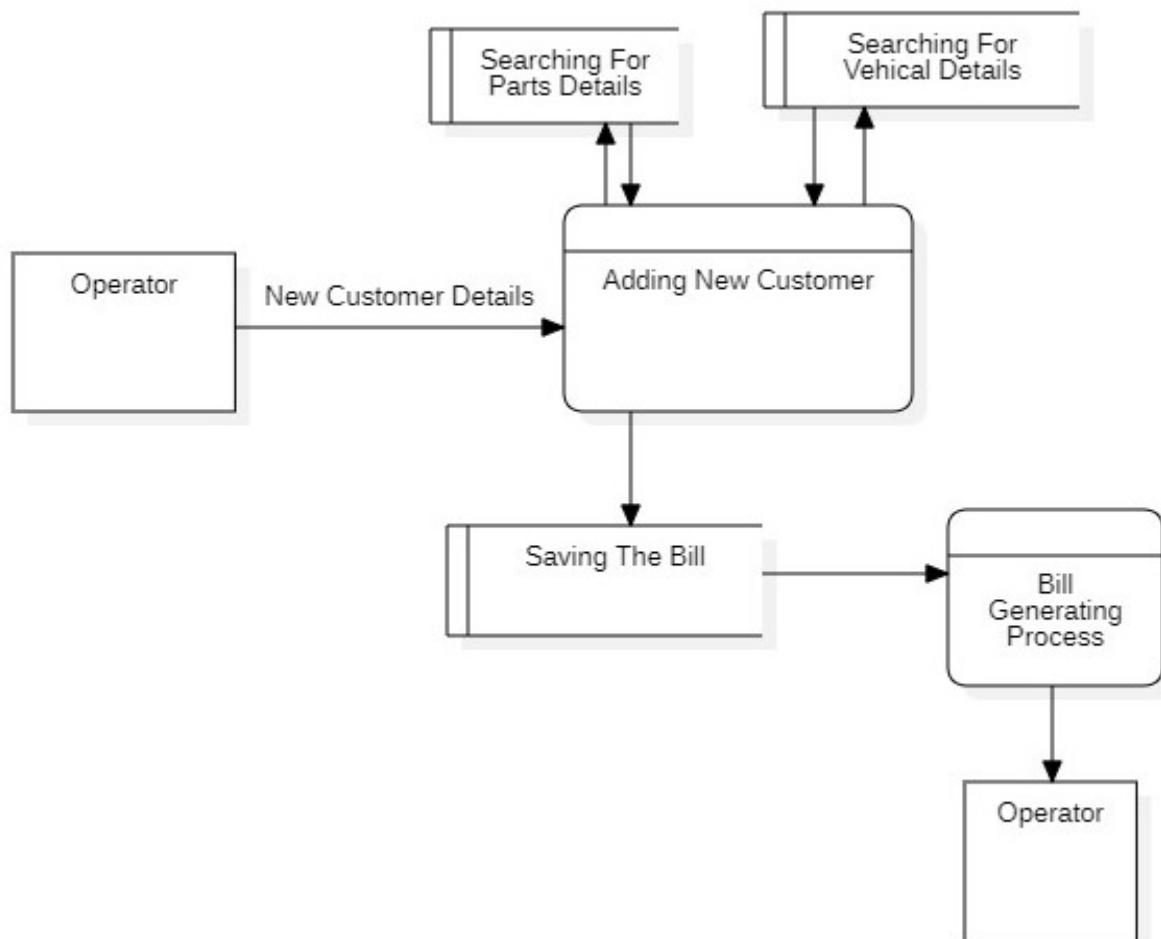


Fig: -6.6

6.4.3DFD Level 2

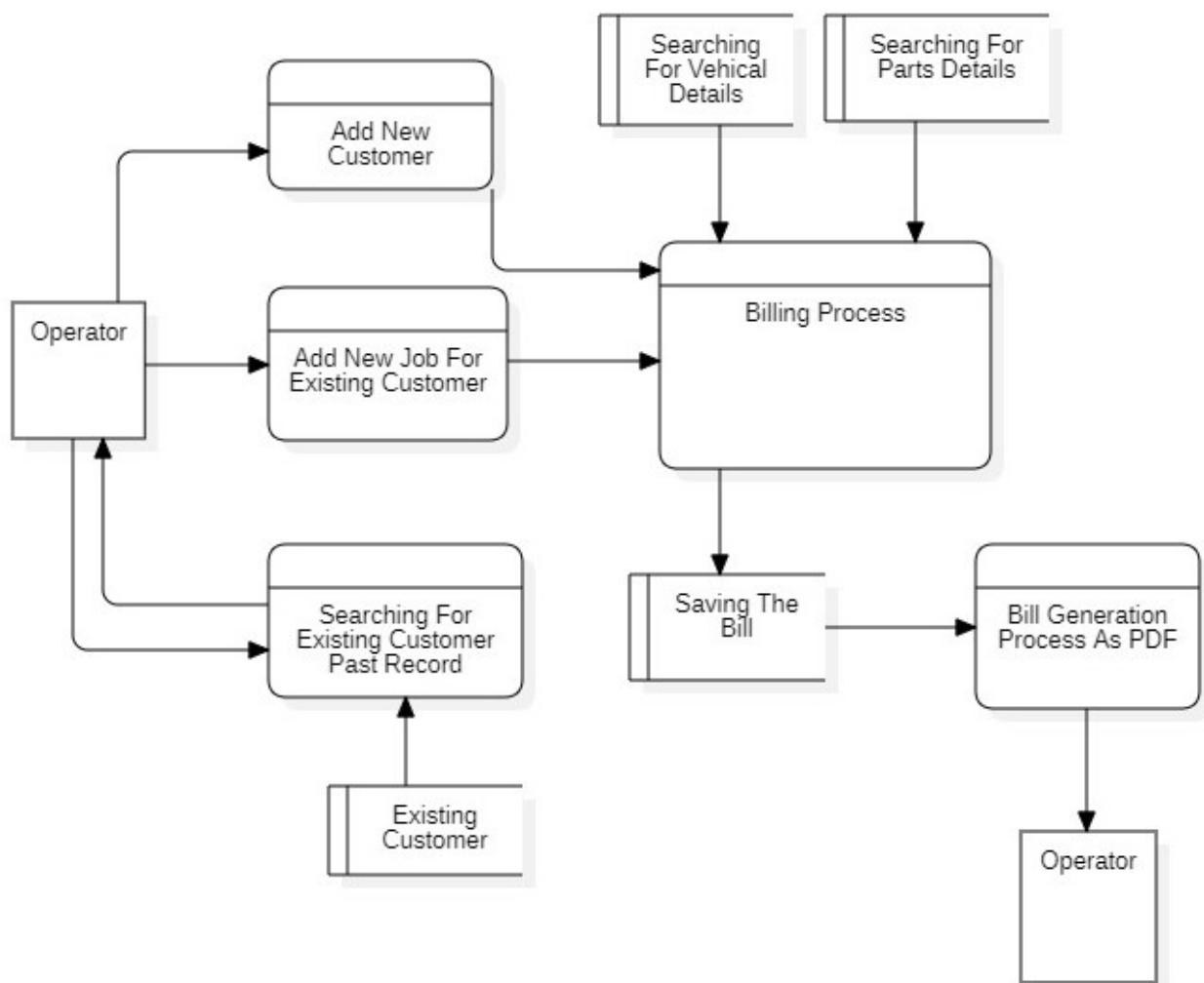


Fig: -6.7

6.5 Use Case Diagram

6.5.1 Use Case for Operator

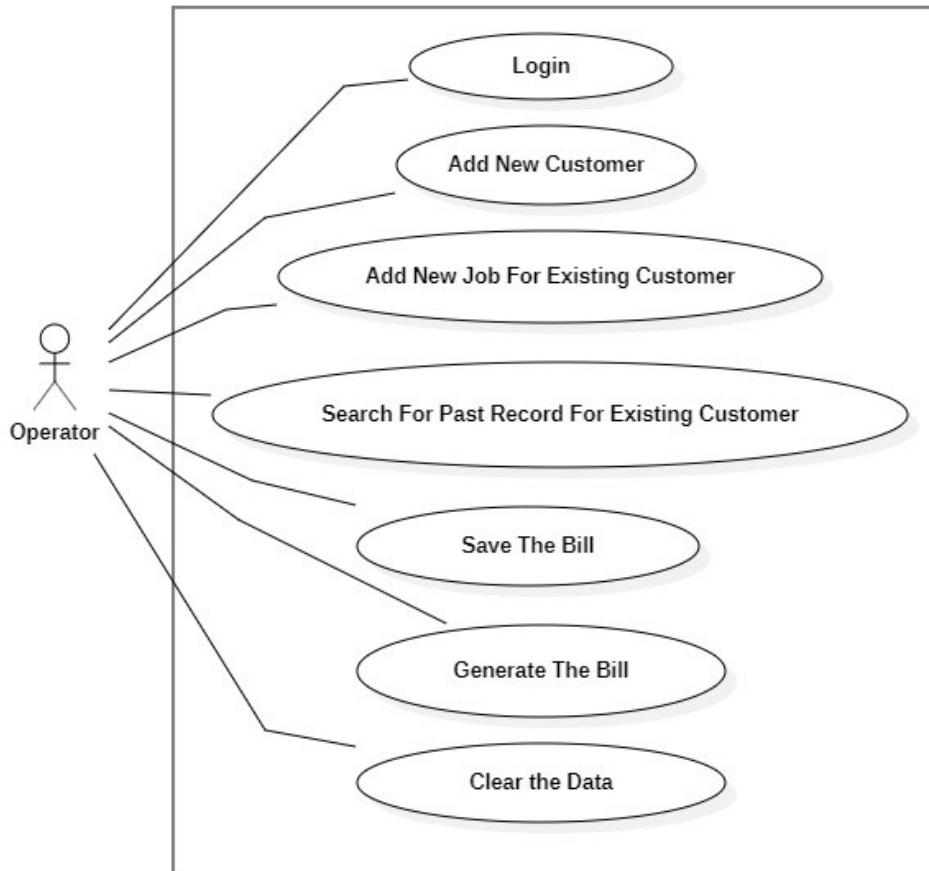


Fig: - 6.8

Chapter 7

IMPLEMENTATION

Login Page Code: -

```
1  from tkinter import *
2      import mysql.connector
3  import bill
4
5  root1 = Tk()
6  root1.resizable(False, False)
7  window_height = 350
8  window_width = 450
9  screen_width = root1.winfo_screenwidth()
10 screen_height = root1.winfo_screenheight()
11
12 x_cordinate = int((screen_width/2) - (window_width/2))
13 y_cordinate = int((screen_height/2) - (window_height/2))
14
15 root1.geometry("{}x{}+{}+{}".format(window_width, window_height, x_cordinate, y_cordinate))
16
17 def loginfn():
18     conn = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
19     cursor = conn.cursor()
20     global label3
21     global label4
22     label3.destroy()
23     label4.destroy()
24     label3 = Label(frame1, text="Try Again!, Incorrect user ID and Password", bg=bg_color, fg="white")
25     label4 = Label(frame1, text="Try Again!, Incorrect Password", bg=bg_color, fg="white")
26     a = user_id_txt.get()
27     b = password_txt.get()
28     sql ="SELECT * from login where User_ID = %s;"
29     cursor.execute(sql,(a,))
```

```

30     result =cursor.fetchall()
31     print(result)
32     sql2 ="Select SHA1(%s) i"
33     cursor.execute(sql2,(b,))
34     result2 =cursor.fetchall()
35     if result == []:
36
37         label3.place(x=110, y=250)
38     else:
39         if result[0][1] == a and result[0][2] != result2[0][0]:
40             label4.place(x=130, y=250)
41     elif result[0][1] == a and result[0][2]== result2[0][0]:
42
43         root1.destroy()
44         bill.root = Tk()
45         obj = bill.Bill_App(bill.root)
46         bill.root.mainloop()
47
48     conn.close()
49     cursor.close()
50
51
52 bg_color = "#027E2C"
53 frame =LabelFrame(root1,bd=10,relief=GROOVE,font=("times new roman",15,"bold"),fg="gold",bg=bg_color)
54 frame.place(x=0,y=0,width=450,height=350)
55 title=Label(frame,text="SIGN IN",bd=8,relief=GROOVE,bg=bg_color,fg="white",font=("times new roman",20,"bold"),pady=2)
56 title.pack(fill=X)
57 frame1 =LabelFrame(frame,font=("times new roman",15,"bold"),fg="gold",bg=bg_color)
58 label0=Label(frame1,text="    USER ID",bg=bg_color).grid(row=0,column=0,pady=10)
59 user_id=Label(frame1,text="    USER ID",bg=bg_color,fg="white",font=("times new roman",15,"bold"))
60 user_id.grid(row=1,column=0,padx=10,pady=10)
61 user_id_txt=Entry(frame1,width=16,font="arial 15",bd=7,relief=SUNKEN)
62 user_id_txt.grid(row=1,column=1,padx=10,pady=10)
63 bullet = "\u2022"
64 password=Label(frame1,text="    PASSWORD",bg=bg_color,fg="white",font=("times new roman",15,"bold"))
65 password.grid(row=2,column=0,padx=10,pady=10)
66 password_txt=Entry(frame1,width=16,show=bullet,font="arial 15",bd=7,relief=SUNKEN)
67 password_txt.grid(row=2,column=1,padx=10,pady=10)
68
69 sign_in_btn =Button(frame1,text="SIGN IN",fg="white",font=("times new roman",15,"bold"),command=loginfn,bg=bg_color)
70 sign_in_btn.place(x=165,y=200)
71
72
73
74 label3 = Label(frame1)
75
76 label4 = Label(frame1)
77
78
79
80
81 root1.mainloop()

```

Bill App Page Code: -

```
1  from tkinter import *
2  from tkinter.ttk import Combobox
3  # noinspection PyUnresolvedReferences
4  from tkinter.ttk import Notebook
5  # noinspection PyUnresolvedReferences
6  from PIL import Image, ImageTk
7  import mysql.connector
8  from mysql.connector import errorcode
9  from mysql.connector import errors
10 import re
11 from tkinter import messagebox
12 import login_page
13
14
15 class Bill_App:
16     def __init__(self,root):
17         self.root = root
18         w, h = self.root.winfo_screenwidth(), self.root.winfo_screenheight()
19         self.root.geometry("%dx%d+0+0" % (w, h))
20         #self.root.geometry("1366x768+0+0")
21         self.root.title("Automobile Service Billing")
22         bg_color = "#027E2C"
23         title=Label(self.root,text="Automobile Service Billing",bd=12,relief=GROOVE,bg=bg_color,fg="white",font=("", "times new roman", 30, "bold"),pady=2).pack(fill=X)
24
25
26
27
28 #variable name=====
29 #=====Customer Details=====
30 self.customer=StringVar()
31 self.Phone =StringVar()
32
33 #=====Vehical Details=====
34 self.KM =StringVar()
35 self.Class=StringVar()
36 self.Brand=StringVar()
37 self.model=StringVar()
38 self.year=StringVar()
39 self.colour=StringVar()
40 self.fuel=StringVar()
41 self.wheels=StringVar()
42 self.ccc=StringVar()
43 self.gear=StringVar()
44 self.power=StringVar()
45
46
47 #=====Job Card=====
48
49
50 #=====Registration Search=====
51 self.regsrch=StringVar()
52 #=====Menu =====
53 self.Totalpart =StringVar()
54 self.TotalLabour =StringVar()
```

```

54     self.TotalLabour = StringVar()
55     self.GstLabour = StringVar()
56     self.GstParts = StringVar()
57     self.GrandTotal = StringVar()
58
59
60 #=====Customer Detail Frame
61 F1 = LabelFrame(self.root, bd=10, relief=GROOVE, text="Customer Details", font=("times new roman", 15, "bold"), fg="gold", bg=bg_color)
62 F1.place(x=0, y=80, relwidth=1)
63
64 cname_lbl=Label(F1, text="Customer Name", bg=bg_color, fg="white", font=("times new roman", 15, "bold")).grid(row=0, column=0, padx=20, pady=5)
65 self.cname_txt=Entry(F1, width=16, state="readonly", textvariable=self.customer, font="arial 15", bd=7, relief=SUNKEN)
66 self.cname_txt.grid(row=0, column=1, padx=5, pady=10)
67
68 cphone_lbl=Label(F1, text="Phone No.", bg=bg_color, fg="white", font=("times new roman", 15, "bold")).grid(row=0, column=2, padx=20, pady=5)
69 self.cphone_txt=Entry(F1, width=16, state="readonly", textvariable=self.Phone, font="arial 15", bd=7, relief=SUNKEN)
70 self.cphone_txt.grid(row=0, column=3, padx=5, pady=10)
71
72 caddress_lbl=Label(F1, text="Address", bg=bg_color, fg="white", font=("times new roman", 15, "bold")).grid(row=0, column=4, padx=20, pady=5)
73 self.caddress_txt=Text(F1, width=52, font="arial 12", height=2, bd=7, relief=SUNKEN)
74 self.caddress_txt.grid(row=0, column=5, padx=5)
75 self.caddress_txt.config(state=DISABLED)
76
77
78 #bill_btn=Button(F1, text="Search", width=10, bd=7, font="arial 12 bold").grid(row=0, column=6, padx=10, pady=10)
79
80
81 #=====Vehical Details==
82
83 F2 = Frame(self.root, bd=10, relief=GROOVE)
84 bill_title1 = Label(F2, text="Vehical Details", font="arial 15 bold", bd=7, relief=GROOVE).pack(fill=X)
85 F2.place(x=5, y=180, width=330, height=380)
86
87 FF2 = Frame(F2, relief=GROOVE, bg=bg_color)
# FF2.place(x=5, y=180, width=325, height=380)
88 canvas = Canvas(FF2, bg=bg_color, width=290)
89 scrollbar = Scrollbar(FF2, orient="vertical", command=canvas.yview)
90 scrollable_frame = Frame(canvas, bg=bg_color, bd=2, relief=GROOVE)
91
92 scrollable_frame.bind(
93     "<Configure>",
94     lambda e: canvas.configure(
95         scrollregion=canvas.bbox("all")
96     )
97 )
98
99
100 canvas.create_window((0, 0), window=scrollable_frame, anchor="nw")
101 canvas.configure(yscrollcommand=scrollbar.set)
102
103 v=[]
104 vclass_lbl = Label(scrollable_frame, text="Class", font=("times new roman", 16, "bold"), bg=bg_color, fg="white").grid(row=0, column=0, padx=10, pady=10, sticky="w")
105 self.vclass_txt = Combobox(scrollable_frame, state="disabled", textvariable=self.Class, values=v)
106 self.vclass_txt.set("Select")
107 self.vclass_txt.grid(row=0, column=1, padx=10, pady=10, ipady=5)
108 self.vclass_txt.bind('<<ComboboxSelected>>', self.classvalues)

```

```

110 vbrand_lbl = Label(scrollable_frame, text="Brand", font=("times new roman", 16, "bold"), bg=bg_color,fg="white").grid(row=1, column=0, padx=10, pady=10, sticky="w")
111 self.vbrand_txt = Combobox(scrollable_frame,state="disabled",textvariable=self.Brand,values=v)
112 self.vbrand_txt.set("Select")
113 self.vbrand_txt.grid(row=1, column=1, padx=10, pady=10,ipady=5)
114 self.vbrand_txt.bind('<<ComboboxSelected>>',self.brandvalues)
115
116 vmodel_lbl = Label(scrollable_frame, text="Model", font=("times new roman", 16, "bold"), bg=bg_color,fg="white").grid(row=2, column=0, padx=10, pady=10, sticky="w")
117 self.vmodel_txt = Combobox(scrollable_frame,state="disabled",textvariable=self.model,values=v)
118 self.vmodel_txt.set("Select")
119 self.vmodel_txt.grid(row=2, column=1, padx=10, pady=10,ipady=5)
120 self.vmodel_txt.bind('<<ComboboxSelected>>', self.modelvalues)
121
122 vyear_lbl = Label(scrollable_frame, text="Year", font=("times new roman", 16, "bold"), bg=bg_color,fg="white").grid(row=3, column=0, padx=10, pady=10, sticky="w")
123 self.vyear_txt = Combobox(scrollable_frame,state="disabled",textvariable=self.year,values=v)
124 self.vyear_txt.set("Select")
125 self.vyear_txt.grid(row=3, column=1, padx=10, pady=10,ipady=5)
126 self.vyear_txt.bind('<<ComboboxSelected>>', self.yearvalues)
127
128 vcolour_lbl = Label(scrollable_frame, text="Colour", font=("times new roman", 16, "bold"), bg=bg_color,fg="white").grid(row=4, column=0, padx=10, pady=10, sticky="w")
129 self.vcolour_txt = Combobox(scrollable_frame,state="disabled",textvariable=self.colour,values=v)
130 self.vcolour_txt.set("Select")
131 self.vcolour_txt.grid(row=4, column=1, padx=10, pady=10,ipady=5)
132 self.vcolour_txt.bind('<<ComboboxSelected>>', self.colourvalues)
133
134 vfuel_lbl = Label(scrollable_frame, text="Fuel", font=("times new roman", 16, "bold"), bg=bg_color,fg="white").grid(row=5, column=0, padx=10, pady=10, sticky="w")
135 self.vfuel_txt = Combobox(scrollable_frame,state="disabled",textvariable=self.fuel,values=v)
136 self.vfuel_txt.set("Select")
137 self.vfuel_txt.grid(row=5, column=1, padx=10, pady=10,ipady=5)
138 self.vfuel_txt.bind('<<ComboboxSelected>>', self.fuelvalues)
139
140 vwheels_lbl = Label(scrollable_frame, text="Wheels", font=("times new roman", 16, "bold"), bg=bg_color,fg="white").grid(row=6, column=0, padx=10, pady=10, sticky="w")
141 self.vwheels_txt = Combobox(scrollable_frame, state="disabled", textvariable=self.wheels, values=v)
142 self.vwheels_txt.set("Select")
143 self.vwheels_txt.grid(row=6, column=1, padx=10, pady=10,ipady=5)
144 self.vwheels_txt.bind('<<ComboboxSelected>>', self.wheelsvalues)
145
146 vcc_lbl = Label(scrollable_frame, text="CC", font=("times new roman", 16, "bold"), bg=bg_color,fg="white").grid(row=7, column=0, padx=10, pady=10, sticky="w")
147 self.vcc_txt = Combobox(scrollable_frame,state="disabled",textvariable=self.cc,values=v)
148 self.vcc_txt.set("Select")
149 self.vcc_txt.grid(row=7, column=1, padx=10, pady=10,ipady=5)
150 self.vcc_txt.bind('<<ComboboxSelected>>', self.ccvalues)
151
152 vgear_lbl = Label(scrollable_frame, text="Gear", font=("times new roman", 16, "bold"), bg=bg_color,fg="white").grid(row=8, column=0, padx=10, pady=10, sticky="w")
153 self.vgear_txt = Combobox(scrollable_frame, state="disabled", textvariable=self.gear, values=v)
154 self.vgear_txt.set("Select")
155 self.vgear_txt.grid(row=8, column=1, padx=10, pady=10,ipady=5)
156 self.vgear_txt.bind('<<ComboboxSelected>>', self.gearvalues)
157
158 vpower_lbl = Label(scrollable_frame, text="Power(HP)", font=("times new roman", 16, "bold"), bg=bg_color,fg="white").grid(row=9, column=0, padx=10, pady=10, sticky="w")
159 self.vpower_txt = Combobox(scrollable_frame,state="disabled",textvariable=self.power,values=v)
160 self.vpower_txt.set("Select")
161 self.vpower_txt.grid(row=9, column=1, padx=10, pady=10,ipady=5)
162
```

```

164 FF2.place(x=1, y=40, height=320)
165 canvas.pack(side="left", fill="both", expand=True)
166 scrollbar.pack(side="right", fill="y")
167 scrollable_frame.place()
168
169
170
171 #=====Job Card=====
172 F3 = Frame(self.root)
173 F3.place(x=340, y=180, width=650, height=380)
174 bill_title3 = Label(F3, text="Job Card", font="arial 15 bold", bd=7, relief=GROOVE).pack(fill=X)
175 self.FF32 = LabelFrame(F3, bd=10, relief=GROOVE, font=("times new roman", 15, "bold"), fg="gold", bg=bg_color)
176 self.FF32.place(x=2, y=45, width=650, height=335)
177
178
179 lable2 = Label(self.FF32, text="", bg=bg_color).grid(row=0, column=0)
180 vkm_lbl = Label(self.FF32, text=" Total Km.      ", font=("times new roman", 15, "bold"), bg=bg_color, fg="white").grid(row=0, column=1, sticky="w")
181 self.vkm_txt = Entry(self.FF32, textvariable=self.KM, state="readonly", font=("times new roman", 13, "bold"), width=10)
182 self.vkm_txt.grid(row=0, column=2, ipady=6)
183
184 lable2 = Label(self.FF32, text="      ", bg=bg_color).grid(row=0, column=3)
185
186 self.test_list = []
187 self.entry = Entry(self.FF32, font=("times new roman", 12, "bold"), width=20)
188 self.entry.grid(row=0, column=4, ipady=6)
189 self.entry.insert(0, "Search")
190 self.entry.config(state="readonly")
191 self.entry.bind('<Button-1>', self.listbox_show)
192 self.entry.bind('<KeyRelease>', self.on_keyrelease)
193 self.listbox = Listbox()
194 self.cells7 = {}
195 self.cells8 = {}
196 self.cells9 = {(0, 0): Entry()}
197 self.cells10 = {(0, 0): Entry()}
198
199 lable1 = Label(self.FF32, text="JOBS PERFORMED:", font=("times new roman", 15, "bold"), fg="white", bg=bg_color).grid(row=1, column=0, ipady=0)
200
201
202 lable2 = Label(self.FF32, bg=bg_color).grid(row=3, column=0)
203 lable2 = Label(self.FF32, bg=bg_color).grid(row=4, column=0)
204 lable2 = Label(self.FF32, bg=bg_color).grid(row=5, column=0)
205 lable2 = Label(self.FF32, bg=bg_color).grid(row=6, column=0)
206 lable2 = Label(self.FF32, bg=bg_color).grid(row=7, column=0)
207 lable2 = Label(self.FF32, bg=bg_color).grid(row=8, column=0)
208 lable2 = Label(self.FF32, bg=bg_color).grid(row=9, column=0)
209
210 FF3 = Frame(self.FF32, relief=GROOVE, bg="white")
211 # FF3.place(x=2, y=60, width=626, height=100)
212 canvas1 = Canvas(FF3, bg=bg_color, width=200)
213 scrollbar1 = Scrollbar(FF3, orient="vertical", command=canvas1.yview)
214 self.scrollable_frame1 = Frame(canvas1, bg=bg_color, bd=5, relief=GROOVE, width=600)
215

```

```

216     self.scrollable_frame1.bind(
217         "<Configure>",
218         lambda e: canvas1.configure(
219             scrollregion=canvas1.bbox("all")
220         )
221     )
222
223     canvas1.create_window((0, 0), window=self.scrollable_frame1, anchor="nw", width=610)
224     canvas1.configure(yscrollcommand=scrollbar1.set)
225
226     self.cells6 = {(0,0):Entry()}
227     a1 = Label(self.scrollable_frame1, text="SNo.", bd=1, relief="solid", width=6).grid(row=0, column=0)
228     a2 = Label(self.scrollable_frame1, text="Job Name", bd=1, relief="solid", width=53).grid(row=0, column=1)
229     a3 = Label(self.scrollable_frame1, text="Hours", bd=1, relief="solid", width=8).grid(row=0, column=2)
230     a4 = Label(self.scrollable_frame1, text="Rate", bd=1, relief="solid", width=8).grid(row=0, column=3)
231     a5 = Label(self.scrollable_frame1, text="Amount", bd=1, relief="solid", width=8).grid(row=0, column=4)
232
233
234
235
236
237
238
239
240     FF3.place(x=2, y=58, width=626, height=90)
241     canvas1.pack(side="left", fill="both", expand=True)
242     scrollbar1.pack(side="right", fill="y")
243     self.scrollable_frame1.place()
244
245
246
247
248
249
250     label3 = Label(self.FF32, text="PARTS PURCHASED:", font=("times new roman", 15, "bold"), fg="white", bg=bg_color).grid(row=8, column=0)
251
252     FFF3 = Frame(self.FF32, relief=GROOVE, bg="white")
253     # FFF3.place(x=2, y=60, width=626, height=100)
254     canvas2 = Canvas(FFF3, bg=bg_color, width=200)
255     scrollbar2 = Scrollbar(FFF3, orient="vertical", command=canvas2.yview)
256     self.scrollable_frame2 = Frame(canvas2, bg=bg_color, bd=5, relief=GROOVE, width=600)
257
258     self.scrollable_frame2.bind(
259         "<Configure>",
260         lambda e: canvas2.configure(
261             scrollregion=canvas2.bbox("all")
262         )
263     )
264
265     canvas2.create_window((0, 0), window=self.scrollable_frame2, anchor="nw", width=610)
266     canvas2.configure(yscrollcommand=scrollbar2.set)
267
268     self.cells4 = {(0,0):Entry()}

```

```

268     self.cells4 = {(0,0):Entry()}
269     b1 = Label(self.scrollable_frame2, text="#Part", bd=1, relief="solid", width=6).grid(row=0, column=0)
270     b2 = Label(self.scrollable_frame2, text="Part Name", bd=1, relief="solid", width=53).grid(row=0, column=1)
271     b3 = Label(self.scrollable_frame2, text="Quant.", bd=1, relief="solid", width=8).grid(row=0, column=2)
272     b4 = Label(self.scrollable_frame2, text="Rate", bd=1, relief="solid", width=8).grid(row=0, column=3)
273     b5 = Label(self.scrollable_frame2, text="Amount", bd=1, relief="solid", width=8).grid(row=0, column=4)
274
275
276
277
278
279
280     FFF3.place(x=2, y=192, width=626, height=125)
281     canvas2.pack(side="left", fill="both", expand=True)
282     scrollbar2.pack(side="right", fill="y")
283     self.scrollable_frame2.place()
284
285
286
287 #Past Record=====
288
289     F5 = Frame(self.root, bd=10, relief=GROOVE)
290     F5.place(x=1000, y=180, width=370, height=380)
291     bill_title=Label(F5,text="Past Record",font="arial 15 bold",bd=7,relief=GROOVE).pack(fill=X)
292     FF5=LabelFrame(F5,relief=GROOVE, font=("times new roman", 15, "bold"),fg="gold", bg=bg_color)
293     FF5.pack(fill=BOTH,expand=1)
294
295     Reg22_lbl = Label(FF5, text="Registration No.*", font=("times new roman", 16, "bold"), bg=bg_color, fg="white").grid(row=0, column=0, padx=5, pady=10)
296     self.Reg22_txt = Entry(FF5, width=16, textvariable=self.regsearch, font=("times new roman", 12, "bold"), bd=5, relief=SUNKEN)
297     self.Reg22_txt.grid(row=0, column=1, padx=5, pady=10)
298
299
300
301     self.iconPath = 'search5.jpg'
302     self.icon = ImageTk.PhotoImage(Image.open(self.iconPath))
303     self.icon_btn = Button(self.root, command=self.searchers, image=self.icon, width=20, height=20, border=0)
304     self.icon_btn.place(x=1295,y=247)
305
306
307
308     self.newcustomer =Button(FF5,text="Add New Customer",command=self.newcustomerf,state="disabled")
309     self.newcustomer.grid(row=1,column=0)
310     self.newjob =Button(FF5,text="Add New Job",command=self.newjobf,state="disabled")
311     self.newjob.grid(row=1,column=1)
312
313
314
315
316
317
318
319     FFFF5 = Frame(FF5, relief=GROOVE, bg="white")
320     # FF3.place(x=2, y=60, width=626, height=100)
321     canvas4 = Canvas(FFF5, bg=bg_color, width=200)

```

```

321     canvas4 = Canvas(FFFF5, bg=bg_color, width=200)
322     scrollbar4 = Scrollbar(FFFF5, orient="vertical", command=canvas4.yview)
323     self.scrollable_frame4 = Frame(canvas4, bg=bg_color, bd=5, relief=GROOVE)
324
325     self.scrollable_frame4.bind(
326         "<Configure>",
327         lambda e: canvas4.configure(
328             scrollregion=canvas4.bbox("all")
329         )
330     )
331
332     canvas4.create_window((0, 0), window=self.scrollable_frame4, anchor="nw", width=325)
333     canvas4.configure(yscrollcommand=scrollbar4.set)
334
335     self.cells2 = {(0,0):Entry()}
336     c1 = Label(self.scrollable_frame4, text="", bd=1, relief="solid", width=4, border=0, bg=bg_color)
337     c1.grid(row=0, column=0, ipady=5)
338     c2 = Label(self.scrollable_frame4, text="Date", bd=1, relief="solid", width=10).grid(row=0, column=1, ipady=5)
339     c3 = Label(self.scrollable_frame4, text="Time", bd=1, relief="solid", width=9).grid(row=0, column=2, ipady=5)
340     c4 = Label(self.scrollable_frame4, text="#Invoice", bd=1, relief="solid", width=10).grid(row=0, column=3, ipady=5)
341     c6 = Label(self.scrollable_frame4, text="Total KM", bd=1, relief="solid", width=9).grid(row=0, column=4, ipady=5)
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379     FFF5.place(x=2, y=90, width=345, height=225)
380     canvas4.pack(side="left", fill="both", expand=True)
381     scrollbar4.pack(side="right", fill="y")
382     self.scrollable_frame4.place()
383
384 #Menu Button Frame=====
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
779
780
781
782
783
784
785
786
787
788
789
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
809
810
811
812
813
814
815
816
817
818
819
819
820
821
822
823
824
825
826
827
828
829
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
849
850
851
852
853
854
855
856
857
858
859
859
860
861
862
863
864
865
866
867
868
869
869
870
871
872
873
874
875
876
877
878
879
879
880
881
882
883
884
885
886
887
888
889
889
890
891
892
893
894
895
896
897
898
899
899
900

```

```

406
407
408 self.invoice_no1 = ""
409
410 btn_F=Frame(F6,bd=7, bg=bg_color,relief=GROOVE,pady=5)
411 btn_F.place(x=750, width=580, height=105)
412
413 save_btn=Button(btn_F, text="Save", bg="cadetblue", state="normal", fg="white", command=self.savebutton, pady=15, width=10, font="arial 15 bold", bd=2)
414 save_btn.grid(row=0, column=0, padx=5, pady=5)
415 Generate_btn = Button(btn_F, text="Generate Bill", state="disabled", command=self.generatebill, bg="cadetblue", fg="white", pady=15, width=10, font="arial 15 bold", bd=2)
416 Generate_btn.grid(row=0, column=1, padx=5, pady=5)
417 Clear_btn = Button(btn_F, text="Clear", command=self.clearall, bg="cadetblue", fg="white", pady=15, width=10, font="arial 15 bold", bd=2)
418 Clear_btn.grid(row=0, column=2, padx=5, pady=5)
419 Exit_btn = Button(btn_F, text="Exit", bg="cadetblue", fg="white", command=self.exitbutton, pady=15, width=10, font="arial 15 bold", bd=2)
420 Exit_btn.grid(row=0, column=3, padx=5, pady=5)
421
422 def searchers(self):
423     try:
424         connection = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
425         if connection.is_connected():
426             db_Info = connection.get_server_info()
427             print("Connected to MySQL Server version ", db_Info)
428             cursor = connection.cursor()
429             cursor.execute("select database();")
430             record = cursor.fetchone()
431             print("You're connected to database: ", record)
432
433             regg=self.regsearch.get()
434             rex = re.compile("[A-Z]{2}[0-9]{2}[A-Z]{2}[0-9]{4}$")
435             if rex.match(regg):
436                 print("Correct format")
437                 sql = "SELECT * FROM customer_details where Registration_No = %s ;"
438                 gerr = (regg,)
439                 cursor.execute(sql, gerr)
440                 myresult = cursor.fetchall()
441                 Regsql=""
442                 vehsql=""
443
444                 for x in myresult:
445                     Regsql=x[1]
446                     self.customer.set(x[2])
447                     self.Phone.set(x[3])
448                     self.caddress_txt.config(state=NORMAL)
449                     self.caddress_txt.delete(1.0, END)
450                     self.caddress_txt.insert(END,x[4])
451                     self.caddress_txt.config(state=DISABLED)
452                     vehsql=x[5]
453
454                     if self.regsearch.get() != Regsql:
455                         self.customer.set("No Record Found")
456                         self.Phone.set("")
457                         self.caddress_txt.config(state=NORMAL)
458                         self.caddress_txt.delete(1.0,END)
459                         self.caddress_txt.config(state=DISABLED)
460                         self.newcustomer.config(state="normal")

```

```

460
461     if self.regsearch.get() == Regsql:
462         sql1 = "SELECT * FROM marketed_vehical where S_No = %s ;"
463         gerr1 = (vehsql,)
464         cursor.execute(sql1, gerr1)
465         myresult1 = cursor.fetchall()
466         self.newjob.config(state="normal")
467         self.newcustomer.config(state="disabled")
468         for y in myresult1:
469             self.Class.set(y[1])
470             self.Brand.set(y[2])
471             self.model.set(y[3])
472             self.year.set(y[4])
473             self.colour.set(y[5])
474             self.fuel.set(y[6])
475             self.wheels.set(y[7])
476             self.cc.set(y[8])
477             self.gear.set(y[9])
478             self.power.set(y[10])
479         sql2 = "SELECT * FROM job_card where Registration_No = %s ;"
480         jobb1 =(Regsql,)
481         cursor.execute(sql2, jobb1)
482         myresult2 = cursor.fetchall()
483         cells1 = {}
484         i1 = 0
485         for r in myresult2:
486             cells1[i1] = (myresult2[i1])
487             i1 += 1
488         print(cells1)
489
490         draww =len(cells1)+1
491         vaa = IntVar()
492         for cellsv in range_(1,draww):
493             ins = cellsv - 1
494             self.cells2[cellsv,0] = Radiobutton(self.scrollable_frame4, text="", variable=vaa, command=lambda: changeButton(vaa.get()), value=cellsv)
495             self.cells2[cellsv,0].grid(row=cellsv, column=0, ipady=3, pady=1)
496
497             self.cells2[cellsv, 1] = Entry(self.scrollable_frame4, text="", width=11)
498             self.cells2[cellsv,1].grid(row=cellsv, column=1, ipady=5, ipadx=2)
499             self.cells2[cellsv,1].insert(0,cells1[ins][7])
500             self.cells2[cellsv,1].config(state="readonly")
501
502             self.cells2[cellsv,2] = Entry(self.scrollable_frame4, text="", width=10)
503             self.cells2[cellsv,2].grid(row=cellsv, column=2, ipady=5, ipadx=2)
504             self.cells2[cellsv,2].insert(0,cells1[ins][8])
505             self.cells2[cellsv,2].config(state="readonly")
506
507             self.cells2[cellsv,3] = Entry(self.scrollable_frame4, text="", width=11)
508             self.cells2[cellsv,3].grid(row=cellsv, column=3, ipady=5, ipadx=2)
509             self.cells2[cellsv,3].insert(0,cells1[ins][6])
510             self.cells2[cellsv,3].config(state="readonly")
511
512             self.cells2[cellsv,4] = Entry(self.scrollable_frame4, text="", width=11)

```

```

512     self.cells2[cellsv4] = Entry(self.scrollable_frame4, text="", width=11)
513     self.cells2[cellsv4].grid(row=cellsv, column=4, ipady=5)
514     self.cells2[cellsv4].insert(0,cells1[ins][2])
515     self.cells2[cellsv4].config(state="readonly")
516
517     print(self.cells2)
518
519     #view RadioButton
520
521     def viewclick(value):
522
523         try:
524             connection = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
525             if connection.is_connected():
526                 db_Info = connection.get_server_info()
527                 print("Connected to MySQL Server version ", db_Info)
528                 cursor = connection.cursor()
529                 cursor.execute("select database();")
530                 record = cursor.fetchone()
531                 print("You're connected to database: ", record)
532
533             fg = value-1
534             partsT=cells1[fg][3]
535             quantity=cells1[fg][5]
536
537             #for parts
538
539             list200 =[]
540             first0 = 0
541             jaa = ","
542
543             for iaa in partsT:
544                 if jaa in iaa:
545                     yaa = partsT.index(jaa, first0)
546                     list200.append(partsT[first0:yaa])
547                     first0 = yaa + 1
548
549             #for quantity
550
551             list300 = []
552             first1 = 0
553             jaal = ","
554
555             for iaal in quantity:
556                 if jaal in iaal:
557                     yaal = quantity.index(jaal, first1)
558                     list300.append(quantity[first1:yaal])
559                     first1 = yaal + 1
560
561
562             incr =0
563             cells3 = {}
564             for l00 in list200:
565                 sql3 = "SELECT * FROM scooter_parts where S_No = %s ;"
566                 cursor.execute(sql3, (l00,))
567                 myresult3 = cursor.fetchall()
568                 cells3[incr] =myresult3
569                 incr += 1
570                 print(cells3)
571                 sizz = len(cells3)+1

```

```

566
567     grnd0 = 0
568     for sizz0 in range(1,sizz):
569         inc1 = sizz0 - 1
570         self.cells4[sizz0,0] = Entry(self.scrollable_frame2, width=7)
571         self.cells4[sizz0,0].grid(row=sizz0, column=0)
572         self.cells4[sizz0,0].insert(0,cells3[inc1][0][1])
573         self.cells4[sizz0,0].config(state="readonly")
574
575         self.cells4[sizz0,1] = Entry(self.scrollable_frame2, width=62)
576         self.cells4[sizz0,1].grid(row=sizz0, column=1)
577         self.cells4[sizz0,1].insert(0,cells3[inc1][0][3])
578         self.cells4[sizz0,1].config(state="readonly")
579
580         self.cells4[sizz0,2] = Entry(self.scrollable_frame2, width=9)
581         self.cells4[sizz0,2].grid(row=sizz0, column=2)
582         self.cells4[sizz0,2].insert(0,list300[inc1])
583         self.cells4[sizz0,2].config(state="readonly")
584
585         self.cells4[sizz0,3] = Entry(self.scrollable_frame2, width=9)
586         self.cells4[sizz0,3].grid(row=sizz0, column=3)
587         self.cells4[sizz0,3].insert(0,cells3[inc1][0][4])
588         self.cells4[sizz0,3].config(state="readonly")
589
590         self.cells4[sizz0,4] = Entry(self.scrollable_frame2, width=9)
591         self.cells4[sizz0,4].grid(row=sizz0, column=4)
592         amount1 = float(self.cells4[sizz0,2].get())
593         amount2 = float(self.cells4[sizz0,3].get())
594         total0 = amount1*amount2
595         self.cells4[sizz0,4].insert(0,total0)
596         self.cells4[sizz0,4].config(state="readonly")
597         grnd0 = grnd0 + total0
598
599 #for Job Performed
600
601     JobP = cells1[fg][9]
602     HourH = cells1[fg][4]
603
604     #for Job Name
605     list400 = []
606     first2 = 0
607     jaa2 = ","
608
609     for iaa2 in JobP:
610         if jaa2 in iaa2:
611             yaa2 = JobP.index(jaa2, first2)
612             list400.append(JobP[first2:yaa2])
613             first2 = yaa2 + 1
614
615     # for Hour
616     list500 = []
617     first3 = 0
618     jaa3 = ","
619
620     for iaa3 in HourH:
621         if jaa3 in iaa3:
622             yaa3 = HourH.index(jaa3, first3)
623             list500.append(HourH[first3:yaa3])
624             first3 = yaa3 + 1

```

```

622
623
624     incr3 = 0
625     cells5 = {}
626     for l100 in list400:
627         sql4 = "SELECT * FROM job_performed where S_No = %s ;"
628         cursor.execute(sql4, (l100,))
629         myresult5 = cursor.fetchall()
630         cells5[incr3] = myresult5
631         incr3 += 1
632         print(cells5)
633         sizzzz = len(cells5) + 1
634
635         grnd1 = 0
636         for sizz3 in range(1, sizzzz):
637             inc3 = sizz3 - 1
638             self.cells6[sizz3, 0] = Entry(self.scrollable_frame1, width=7)
639             self.cells6[sizz3, 0].grid(row=sizz3, column=0)
640             self.cells6[sizz3, 0].insert(0, cells5[inc3][0][0])
641             self.cells6[sizz3, 0].config(state="readonly")
642
643             self.cells6[sizz3, 1] = Entry(self.scrollable_frame1, width=62)
644             self.cells6[sizz3, 1].grid(row=sizz3, column=1)
645             self.cells6[sizz3, 1].insert(0, cells5[inc3][0][1])
646             self.cells6[sizz3, 1].config(state="readonly")
647
648             self.cells6[sizz3, 2] = Entry(self.scrollable_frame1, width=9)
649             self.cells6[sizz3, 2].grid(row=sizz3, column=2)
650             self.cells6[sizz3, 2].insert(0, list500[inc3])
651             self.cells6[sizz3, 2].config(state="readonly")
652
653             self.cells6[sizz3, 3] = Entry(self.scrollable_frame1, width=9)
654             self.cells6[sizz3, 3].grid(row=sizz3, column=3)
655             self.cells6[sizz3, 3].insert(0, cells5[inc3][0][2])
656             self.cells6[sizz3, 3].config(state="readonly")
657
658             self.cells6[sizz3, 4] = Entry(self.scrollable_frame1, width=9)
659             self.cells6[sizz3, 4].grid(row=sizz3, column=4)
660             amount3 = float(self.cells6[sizz3, 2].get())
661             amount4 = float(self.cells6[sizz3, 3].get())
662             total1 = amount3 * amount4
663             self.cells6[sizz3, 4].insert(0, total1)
664             self.cells6[sizz3, 4].config(state="readonly")
665             grnd1 = grnd1 + total1
666
667             gstlabour = float(grnd1*28/100)
668             gstperts = float(grnd0*28/100)
669             grandttl = float(grnd0+gstparts+grnd1+gstlabour)
670             self.Totalpart.set(grnd0)
671             self.TotalLabour.set(grnd1)
672             self.GstLabour.set(gstlabour)
673             self.GstParts.set(gstperts)
674             self.GrandTotal.set(grandttl)
675
676
677             finally:
678                 if (connection.is_connected()):

```

```

679         cursor.close()
680         connection.close()
681         print("MySQL connection is closed")
682
683     def changeButton(value):
684         cell4_len = len(self.cells4)
685         cell6_len = len(self.cells6)
686         dell4_len = cell4_len - 1
687         dell6_len = cell6_len - 1
688         final_cell4 = int(dell4_len/5)
689         final_cell6 = int(dell6_len/5)
690         final_cell4 = final_cell4 + 1
691         final_cell6 = final_cell6 + 1
692         if final_cell4 > 1:
693             for row in range(1,final_cell4):
694                 self.cells4[row,0].destroy()
695                 self.cells4[row,1].destroy()
696                 self.cells4[row,2].destroy()
697                 self.cells4[row,3].destroy()
698                 self.cells4[row,4].destroy()
699
700         if final_cell6 > 1:
701             for row1 in range(1,final_cell6):
702                 self.cells6[row1, 0].destroy()
703                 self.cells6[row1, 1].destroy()
704                 self.cells6[row1, 2].destroy()
705             if final_cell6 > 1:
706                 for row1 in range(1,final_cell6):
707                     self.cells6[row1, 0].destroy()
708                     self.cells6[row1, 1].destroy()
709                     self.cells6[row1, 2].destroy()
710                     self.cells6[row1, 3].destroy()
711                     self.cells6[row1, 4].destroy()
712
713         viewclick(value)
714
715     else:
716         print("Incorrect")
717
718     finally:
719         if (connection.is_connected()):
720             cursor.close()
721             connection.close()
722             print("MySQL connection is closed")
723
724
725
726     def newjobf(self):

```

```

727     cell4_len = len(self.cells4)
728     cell6_len = len(self.cells6)
729     dell4_len = cell4_len - 1
730     dell6_len = cell6_len - 1
731     final_cell4 = int(dell4_len / 5)
732     final_cell6 = int(dell6_len / 5)
733     final_cell4 = final_cell4 + 1
734     final_cell6 = final_cell6 + 1
735
736     if final_cell4 > 1:
737         for row in range(1,final_cell4):
738             self.cells4[row, 0].destroy()
739             self.cells4[row, 1].destroy()
740             self.cells4[row, 2].destroy()
741             self.cells4[row, 3].destroy()
742             self.cells4[row, 4].destroy()
743
744     if final_cell6 > 1:
745         for row1 in range(1,final_cell6):
746             self.cells6[row1, 0].destroy()
747             self.cells6[row1, 1].destroy()
748             self.cells6[row1, 2].destroy()
749             self.cells6[row1, 3].destroy()
750             self.cells6[row1, 4].destroy()
751         self.KM.set("")
752         self.vkm_txt.config(state="normal")
753         self.TotalLabour.set("")
754         self.Totalpart.set("")
755         self.GstLabour.set("")
756         self.GstParts.set("")
757         self.GrandTotal.set("")
758         self.entry.config(state="normal")
759         self.Reg22_txt.config(state="readonly")
760         self.icon_btn.config(state="disabled")
761         self.newjob.config(state="disabled")
762
763
764
765     def newcustomerf(self):
766         self.vclass_txt["values"] = ["Scooter", "Bike", "Hatchback Car", "Sedan Car", "SUV Car"]
767         self.customer.set("")
768         self.cname_txt.config(state="normal")
769         self.cphone_txt.config(state="normal")
770         self.caddress_txt.config(state="normal")
771         self.newcustomer.config(state="disabled")
772         self.vclass_txt.config(state="readonly")
773         self.Reg22_txt.config(state="readonly")
774         self.icon_btn.config(state="disabled")
775         self.entry.config(state="normal")
776         self.vkm_txt.config(state="normal")
777
778
779     def classvalues(self, event):

```

```

780     try:
781         connection = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
782         if connection.is_connected():
783             db_Info = connection.get_server_info()
784             print("Connected to MySQL Server version ", db_Info)
785             cursor = connection.cursor()
786             cursor.execute("select database();")
787             record = cursor.fetchone()
788             print("You're connected to database: ", record)
789             a = self.vclass_txt.get()
790             v = []
791             if a == "Scooter":
792                 sql = "SELECT DISTINCT Brand FROM marketed_vehical where Class = %s ;"
793                 cursor.execute(sql, ("Scooter",))
794                 myresult = cursor.fetchall()
795                 for i in myresult:
796                     v.append(i)
797
798             elif a == "Bike":
799                 sql1 = "SELECT DISTINCT Brand FROM marketed_vehical where Class = %s ;"
800                 cursor.execute(sql1, ("Bike",))
801                 myresult1 = cursor.fetchall()
802                 for j in myresult1:
803                     v.append(j)
804
805             elif a == "Hatchback Car":
806                 sql2 = "SELECT DISTINCT Brand FROM marketed_vehical where Class = %s ;"
807                 cursor.execute(sql2, ("Hatchback Car",))
808                 myresult2 = cursor.fetchall()
809                 for k in myresult2:
810                     v.append(k)
811
812             elif a == "Sedan Car":
813                 sql3 = "SELECT DISTINCT Brand FROM marketed_vehical where Class = %s ;"
814                 cursor.execute(sql3, ("Sedan Car",))
815                 myresult3 = cursor.fetchall()
816                 for q in myresult3:
817                     v.append(q)
818
819             elif a == "SUV Car":
820                 sql4 = "SELECT DISTINCT Brand FROM marketed_vehical where Class = %s ;"
821                 cursor.execute(sql4, ("SUV Car",))
822                 myresult4 = cursor.fetchall()
823                 for w in myresult4:
824                     v.append(w)
825
826             self.vbrand_txt["values"] = v
827             self.vbrand_txt.config(state="readonly")
828
829         finally:
830             if (connection.is_connected()):
831                 cursor.close()
832                 connection.close()

```

```

833     print("MySQL connection is closed")
834
835 def brandvalues(self,event):
836     try:
837         connection = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
838         if connection.is_connected():
839             db_Info = connection.get_server_info()
840             print("Connected to MySQL Server version ", db_Info)
841             cursor = connection.cursor()
842             cursor.execute("select database();")
843             record = cursor.fetchone()
844             print("You're connected to database: ", record)
845             a = self.vbrand_txt.get()
846             b = self.vclass_txt.get()
847             v = []
848             sql = "SELECT DISTINCT Model FROM marketed_vehical where Class = %s and Brand = %s ;"
849             cursor.execute(sql,(b,a))
850             myresult = cursor.fetchall()
851             print(myresult)
852             for i in myresult:
853                 v.append(i[0])
854             print(v)
855
856             self.vmodel_txt["values"] = v
857             self.vmodel_txt.config(state="readonly")
858     finally:
859         if (connection.is_connected()):
860             cursor.close()
861             connection.close()
862             print("MySQL connection is closed")
863
864
865 def modelvalues(self,event):
866     try:
867         connection = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
868         if connection.is_connected():
869             db_Info = connection.get_server_info()
870             print("Connected to MySQL Server version ", db_Info)
871             cursor = connection.cursor()
872             cursor.execute("select database();")
873             record = cursor.fetchone()
874             print("You're connected to database: ", record)
875             a= self.vmodel_txt.get()
876             v = []
877             sql = "SELECT DISTINCT Year FROM marketed_vehical where Model = %s ;"
878             cursor.execute(sql,(a,))
879             myresult = cursor.fetchall()
880             print(myresult)
881             for i in myresult:

```

```

880     print(myresult)
881     for i in myresult:
882         v.append(i[0])
883     print(v)
884     self.vyear_txt["values"] = v
885     self.vyear_txt.config(state="readonly")
886
887     finally:
888         if (connection.is_connected()):
889             cursor.close()
890             connection.close()
891         print("MySQL connection is closed")
892
893
894
895     def yearvalues(self, event):
896         try:
897             connection = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
898             if connection.is_connected():
899                 db_Info = connection.get_server_info()
900                 print("Connected to MySQL Server version ", db_Info)
901                 cursor = connection.cursor()
902                 cursor.execute("select database();")
903                 record = cursor.fetchone()
904                 print("You're connected to database: ", record)
905                 a = self.vmodel_txt.get()
906                 b= self.vyear_txt.get()
907                 v = []
908                 sql = "SELECT DISTINCT Colour FROM marketed_vehical where Model = %s and Year = %s ;"
909                 cursor.execute(sql,(a,b))
910                 myresult = cursor.fetchall()
911                 print(myresult)
912                 for i in myresult:
913                     v.append(i[0])
914                 print(v)
915
916                 self.vcolour_txt["values"] = v
917                 self.vcolour_txt.config(state="readonly")
918             finally:
919                 if (connection.is_connected()):
920                     cursor.close()
921                     connection.close()
922                     print("MySQL connection is closed")
923
924
925     def colourvalues(self, event):
926         try:
927             connection = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
928             if connection.is_connected():
929                 db_Info = connection.get_server_info()
930                 print("Connected to MySQL Server version ", db_Info)
931                 cursor = connection.cursor()
932                 cursor.execute("select database();")
933                 record = cursor.fetchone()
934                 print("You're connected to database: ", record)

```

```

935     a= self.vmodel_txt.get()
936     b= self.vyear_txt.get()
937     v = []
938     sql = "SELECT DISTINCT Fuel FROM marketed_vehical where Model = %s and Year = %s ;"
939     cursor.execute(sql,(a,b))
940     myresult = cursor.fetchall()
941     print(myresult)
942     for i in myresult:
943         v.append(i[0])
944     print(v)
945
946     self.vfuel_txt["values"] = v
947     self.vfuel_txt.config(state="readonly")
948 finally:
949     if (connection.is_connected()):
950         cursor.close()
951         connection.close()
952         print("MySQL connection is closed")
953
954 def fuelvalues(self,event):
955     try:
956         connection = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
957         if connection.is_connected():
958             db_Info = connection.get_server_info()
959             print("Connected to MySQL Server version ", db_Info)
960             cursor = connection.cursor()
961             cursor.execute("select database();")
962             record = cursor.fetchone()
963             print("You're connected to database: ", record)
964             a= self.vmodel_txt.get()
965             b= self.vyear_txt.get()
966             v = []
967             sql = "SELECT DISTINCT Wheels FROM marketed_vehical where Model = %s and Year = %s ;"
968             cursor.execute(sql,(a,b))
969             myresult = cursor.fetchall()
970             print(myresult)
971             for i in myresult:
972                 v.append(i[0])
973             print(v)
974
975             self.vwheels_txt["values"] = v
976             self.vwheels_txt.config(state="readonly")
977     finally:
978         if (connection.is_connected()):
979             cursor.close()
980             connection.close()
981             print("MySQL connection is closed")
982
983 def wheelsvalues(self,event):
984     try:
985         connection = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
986         if connection.is_connected():
987             db_Info = connection.get_server_info()
988             print("Connected to MySQL Server version ", db_Info)
989             cursor = connection.cursor()

```

```

989     cursor = connection.cursor()
990     cursor.execute("select database();")
991     record = cursor.fetchone()
992     print("You're connected to database: ", record)
993     a= self.vmodel_txt.get()
994     b= self.vyear_txt.get()
995     v = []
996     sql = "SELECT DISTINCT CC FROM marketed_vehical where Model = %s and Year = %s ;"
997     cursor.execute(sql,(a,b))
998     myresult = cursor.fetchall()
999     print(myresult)
1000    for i in myresult:
1001        v.append(i[0])
1002    print(v)
1003
1004    self.vcc_txt["values"] = v
1005    self.vcc_txt.config(state="readonly")
1006
1007    finally:
1008        if (connection.is_connected()):
1009            cursor.close()
1010            connection.close()
1011            print("MySQL connection is closed")
1012
1013    def ccvalues(self,event):
1014        try:
1015            connection = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
1016            if connection.is_connected():
1017                db_Info = connection.get_server_info()
1018                print("Connected to MySQL Server version ", db_Info)
1019                cursor = connection.cursor()
1020                cursor.execute("select database();")
1021                record = cursor.fetchone()
1022                print("You're connected to database: ", record)
1023                a= self.vmodel_txt.get()
1024                b= self.vyear_txt.get()
1025                v = []
1026                sql = "SELECT DISTINCT Gear FROM marketed_vehical where Model = %s and Year = %s ;"
1027                cursor.execute(sql,(a,b))
1028                myresult = cursor.fetchall()
1029                print(myresult)
1030                for i in myresult:
1031                    v.append(i[0])
1032                print(v)
1033
1034                self.vgear_txt["values"] = v
1035                self.vgear_txt.config(state="readonly")
1036            finally:
1037                if (connection.is_connected()):
1038                    cursor.close()
1039                    connection.close()
1040                    print("MySQL connection is closed")
1041
1042    def gearvalues(self,event):
1043        try:

```

```

1041     def gearvalues(self,event):
1042         try:
1043             connection = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
1044             if connection.is_connected():
1045                 db_Info = connection.get_server_info()
1046                 print("Connected to MySQL Server version ", db_Info)
1047                 cursor = connection.cursor()
1048                 cursor.execute("select database();")
1049                 record = cursor.fetchone()
1050                 print("You're connected to database: ", record)
1051                 a= self.vmodel_txt.get()
1052                 b= self.vyear_txt.get()
1053                 v = []
1054                 sql = "SELECT DISTINCT Power_HP FROM marketed_vehical where Model = %s and Year = %s ;"
1055                 cursor.execute(sql,(a,b))
1056                 myresult = cursor.fetchall()
1057                 print(myresult)
1058                 for i in myresult:
1059                     v.append(i[0])
1060                 print(v)
1061
1062                 self.vpower_txt["values"] = v
1063                 self.vpower_txt.config(state="readonly")
1064             finally:
1065                 if (connection.is_connected()):
1066                     cursor.close()
1067                     connection.close()
1068                     print("MySQL connection is closed")
1069
1070 #Job Card Functions and Events for Create Job And Create Customer
1071
1072     def listbox_show(self,j):
1073         if self.entry["state"] == NORMAL:
1074             self.entry.delete(0,END)
1075             try:
1076                 connection = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
1077                 if connection.is_connected():
1078                     db_Info = connection.get_server_info()
1079                     print("Connected to MySQL Server version ", db_Info)
1080                     cursor = connection.cursor()
1081                     cursor.execute("select database();")
1082                     record = cursor.fetchone()
1083                     print("You're connected to database: ", record)
1084
1085
1086                 # parts table
1087                 sql1 = "SELECT * FROM scooter_parts where Model = %s ;"
1088                 vehsql = self.vmodel_txt.get()
1089                 cursor.execute(sql1, (vehsql,))
1090                 myresult1 = cursor.fetchall()
1091                 print(myresult1,"this are the values of scooter parts")
1092                 inss = 0
1093                 for y in myresult1:
1094                     self.cells7[inss] = (y)
1095                     inss += 1
1096                 print(self.cells7)
1097                 # job performed

```

```

1097
1098     #_job_performed
1099     sql2 = "SELECT * FROM job_performed ;"
1100     cursor.execute(sql2, )
1101     myresult2 = cursor.fetchall()
1102     print(myresult2)
1103     inss1 = 0
1104     for zz in myresult2:
1105         self.cells8[inss1] = (zz)
1106         inss1 += 1
1107     print(self.cells8)
1108     self.test_list = []
1109     lencell7 = len(self.cells7)
1110     print(lencell7)
1111     for x in range(lencell7):
1112         self.test_list.append(self.cells7[x][3])
1113
1114     lencell8 = len(self.cells8)
1115     print(lencell8)
1116     for tt in range(lencell8):
1117         self.test_list.append(self.cells8[tt][1])
1118
1119     print(self.test_list)
1120     self.listbox.destroy()
1121     self.listbox = Listbox(self.FF32,width=27)
1122     self.listbox.place(x=446, y=36)
1123     # listbox.bind('<Double-Button-1>', on_select)
1124     self.listbox.bind('<>ListboxSelect>', self.on_select)
1125     self.listbox_update(self.test_list)
1126
1127     finally:
1128         if (connection.is_connected()):
1129             cursor.close()
1130             connection.close()
1131             print("MySQL connection is closed")
1132
1133     def on_keyrelease(self, event):
1134
1135         # get text from entry
1136         value = event.widget.get()
1137         value = value.strip().lower()
1138
1139         # get data from test_list
1140         if value == '' or value.isspace() == TRUE:
1141             data = self.test_list
1142         else:
1143             data = []
1144             for item in self.test_list:
1145                 if value in item.lower():
1146                     data.append(item)
1147
1148         # update data in listbox
1149         self.listbox_update(data)
1150

```

```

1150     def listbox_update(self, data):
1151         # delete previous data
1152         self.listbox.delete(0, 'end')
1153
1154         # sorting data
1155         data = sorted(data, key=str.lower)
1156
1157         # put new data
1158         for item in data:
1159             self.listbox.insert('end', item)
1160
1161     def on_select(self, event):
1162         # display element selected on list
1163         print('(event) previous:', event.widget.get('active'))
1164         print('(event) current:', event.widget.get(event.widget.curselection()))
1165         value1 = event.widget.get(event.widget.curselection())
1166         print(value1)
1167         lencell9 = len(self.cells9)
1168         mincell9 = lencell9 - 1
1169         totlcell9 = int(mincell9 / 5 + 1)
1170         print(totlcell9)
1171         checkval = 0
1172         for i in self.cells7:
1173             if value1 == self.cells7[checkval][3]:
1174                 self.cells9[totlcell9, 0] = Entry(self.scrollable_frame2, width=7)
1175                 self.cells9[totlcell9, 0].grid(row=totlcell9, column=0)
1176                 self.cells9[totlcell9, 0].insert(0, self.cells7[checkval][1])
1177                 self.cells9[totlcell9, 0].config(state="readonly")
1178
1179                 self.cells9[totlcell9, 1] = Entry(self.scrollable_frame2, width=62)
1180                 self.cells9[totlcell9, 1].grid(row=totlcell9, column=1)
1181                 self.cells9[totlcell9, 1].insert(0, self.cells7[checkval][3])
1182                 self.cells9[totlcell9, 1].config(state="readonly")
1183
1184                 self.cells9[totlcell9, 2] = Entry(self.scrollable_frame2, width=9)
1185                 self.cells9[totlcell9, 2].grid(row=totlcell9, column=2)
1186                 # self.cells9[totlcell9,2].bind('<KeyRelease>',self.autocalculation)
1187                 self.cells9[totlcell9, 2].bind("<KeyRelease>",
1188                                         lambda event, cellno=9, rowno=totlcell9: self.autocalculation(event, cellno,
1189                                         rowno))
1190
1191                 self.cells9[totlcell9, 3] = Entry(self.scrollable_frame2, width=9)
1192                 self.cells9[totlcell9, 3].grid(row=totlcell9, column=3)
1193                 self.cells9[totlcell9, 3].insert(0, self.cells7[checkval][4])
1194                 self.cells9[totlcell9, 3].config(state="readonly")
1195
1196                 self.cells9[totlcell9, 4] = Entry(self.scrollable_frame2, width=9)
1197                 self.cells9[totlcell9, 4].grid(row=totlcell9, column=4)
1198                 self.cells9[totlcell9, 4].config(state="readonly")

```

```

1196     self.cells9[totlcell9, 4].grid(row=totlcell9, column=4)
1197     self.cells9[totlcell9, 4].config(state="readonly")
1198     checkval = checkval + 1
1199
1200     lencell10 = len(self.cells10)
1201     mincell10 = lencell10 - 1
1202     totlcell10 = int(mincell10 / 5 + 1)
1203     print(totlcell10)
1204     checkval2 = 0
1205
1206
1207     for i in self.cells8:
1208         if value1 == self.cells8[checkval2][1]:
1209             self.cells10[totlcell10, 0] = Entry(self.scrollable_frame1, width=7)
1210             self.cells10[totlcell10, 0].grid(row=totlcell10, column=0)
1211             self.cells10[totlcell10, 0].insert(0, self.cells8[checkval2][0])
1212             self.cells10[totlcell10, 0].config(state="readonly")
1213
1214             self.cells10[totlcell10, 1] = Entry(self.scrollable_frame1, width=62)
1215             self.cells10[totlcell10, 1].grid(row=totlcell10, column=1)
1216             self.cells10[totlcell10, 1].insert(0, self.cells8[checkval2][1])
1217             self.cells10[totlcell10, 1].config(state="readonly")
1218
1219             self.cells10[totlcell10, 2] = Entry(self.scrollable_frame1, width=9)
1220             self.cells10[totlcell10, 2].grid(row=totlcell10, column=2)
1221             # self.cells10[totlcell10,2].bind('<KeyRelease>',self.autocalculation)
1222             self.cells10[totlcell10, 2].bind("<KeyRelease>",lambda event, cellno=10, rowno=totlcell10: self.autocalculation(event,cellno,rowno))
1223
1224             self.cells10[totlcell10, 3] = Entry(self.scrollable_frame1, width=9)
1225             self.cells10[totlcell10, 3].grid(row=totlcell10, column=3)
1226             self.cells10[totlcell10, 3].insert(0, self.cells8[checkval2][2])
1227             self.cells10[totlcell10, 3].config(state="readonly")
1228
1229             self.cells10[totlcell10, 4] = Entry(self.scrollable_frame1, width=9)
1230             self.cells10[totlcell10, 4].grid(row=totlcell10, column=4)
1231             self.cells10[totlcell10, 4].config(state="readonly")
1232             checkval2 = checkval2 + 1
1233
1234             print('---')
1235             self.entry.delete(0,END)
1236             self.entry.insert(0,"Search")
1237             self.listbox.destroy()
1238
1239             def autocalculation(self, event, cellno, rowno):
1240                 value0 = event.widget.get()
1241                 if value0.isspace() == TRUE or value0 == '':
1242                     if cellno == 9:
1243                         self.cells9[rowno, 4].config(state="normal")
1244                         self.cells9[rowno, 4].delete(0, END)
1245                         self.cells9[rowno, 4].config(state="readonly")
1246                     elif cellno == 10:
1247                         self.cells10[rowno, 4].config(state="normal")
1248                         self.cells10[rowno, 4].delete(0, END)
1249                         self.cells10[rowno, 4].config(state="readonly")
1250

```

```

1251     else:
1252         value2 = float(value0)
1253         print(value2)
1254         print(cellno)
1255         print(rowno)
1256         find = re.compile(r"\d*[.,]?\d*\$")
1257
1258         if find.match(value0):
1259             print('TRUE')
1260             if cellno == 9:
1261                 rate0 = self.cells9[rowno, 3].get()
1262                 rate1 = float(rate0)
1263                 print(rate1)
1264                 self.cells9[rowno, 4].config(state="normal")
1265                 self.cells9[rowno, 4].delete(0, END)
1266                 self.cells9[rowno, 4].insert(0, value2 * rate1)
1267                 self.cells9[rowno, 4].config(state="readonly")
1268
1269                 lengthofcell = len(self.cells9)
1270                 lengthminus = lengthofcell - 1
1271                 finallength = int(lengthminus / 5 + 1)
1272                 Sum = 0.0
1273                 for i in range(1, finallength):
1274                     amount = self.cells9[i, 4].get()
1275                     if amount.isspace() == TRUE or amount == '':
1276                         pass
1277                     else:
1278                         amount1 = float(amount)
1279                         Sum = Sum + amount1
1280
1281                     self.Totalpart.set(str(Sum))
1282                     gst = (Sum * 28 / 100)
1283                     self.GstParts.set(str(gst))
1284                     labour = self.TotalLabour.get()
1285                     if labour == '':
1286                         labour1 = 0.0
1287                     else:
1288                         labour1 = float(labour)
1289                     gstlabour = self.GstLabour.get()
1290                     if gstlabour == '':
1291                         gstlabour1 = 0.0
1292                     else:
1293                         gstlabour1 = float(gstlabour)
1294                     finalamount = Sum + gst + labour1 + gstlabour1
1295                     self.GrandTotal.set(str(finalamount))
1296
1297
1298             if cellno == 10:
1299                 rate2 = self.cells10[rowno, 3].get()
1300                 rate3 = float(rate2)
1301                 self.cells10[rowno, 4].config(state="normal")
1302                 self.cells10[rowno, 4].delete(0, END)
1303                 self.cells10[rowno, 4].insert(0, value2 * rate3)
1304                 self.cells10[rowno, 4].config(state="readonly")
1305

```

```

1304     self.cells10[rowno, 4].config(state="readonly")
1305
1306     lengthofcell1 = len(self.cells10)
1307     lengthminus1 = lengthofcell1 - 1
1308     finallength1 = int(lengthminus1 / 5 + 1)
1309     Sum1 = 0.0
1310     for j in range(1, finallength1):
1311         amount2 = self.cells10[j, 4].get()
1312         if amount2.isspace() == TRUE or amount2 == '':
1313             pass
1314         else:
1315             amount3 = float(amount2)
1316             Sum1 = Sum1 + amount3
1317
1318             self.TotalLabour.set(str(Sum1))
1319             gst1 = (Sum1 * 28 / 100)
1320             self.GstLabour.set(str(gst1))
1321             parts2 = self.Totalpart.get()
1322             if parts2 == '':
1323                 parts3 = 0.0
1324             else:
1325                 parts3 = float(parts2)
1326             gstparts2 = self.GstParts.get()
1327             if gstparts2 == '':
1328                 gstparts3 = 0.0
1329             else:
1330                 gstparts3 = float(gstparts2)
1331             finalamount1 = Sum1 + gst1 + parts3 + gstparts3
1332             gstparts3 = 0.0
1333             else:
1334                 gstparts3 = float(gstparts2)
1335             finalamount1 = Sum1 + gst1 + parts3 + gstparts3
1336             self.GrandTotal.set(str(finalamount1))
1337
1338
1339     def savebutton(self):
1340         try:
1341             connection = mysql.connector.connect(host='localhost', database='bill', user='root', password='login')
1342             if connection.is_connected():
1343                 db_Info = connection.get_server_info()
1344                 print("Connected to MySQL Server version ", db_Info)
1345                 cursor = connection.cursor()
1346                 cursor.execute("select database();")
1347                 record = cursor.fetchone()
1348                 print("You're connected to database: ", record)
1349
1350                 a = str(self.vclass_txt.get())
1351                 b = str(self.vbrand_txt.get())
1352                 c = str(self.vmodel_txt.get())
1353                 d = str(self.vyear_txt.get())
1354                 e = str(self.vcolour_txt.get())
1355                 f = str(self.vfuel_txt.get())

```

```

1355
1356     f = str(self.vfuel_txt.get())
1357     g = str(self.vwheels_txt.get())
1358     h = str(self.vcc_txt.get())
1359     i = str(self.vgear_txt.get())
1360     j = str(self.vpower_txt.get())
1361
1362     cus_name = str(self.cname_txt.get())
1363     cus_phone = str(self.cphone_txt.get())
1364     cus_address = str(self.caddress_txt.get("1.0", END))
1365     latest_KM1 = self.vkm_txt.get()
1366     print(latest_KM1)
1367     latest_KM = str(latest_KM1)
1368     reg1=re.compile('^[0-9]*$')
1369     if a == "Select" or b=="Select" or c=="Select" or d=="Select" or e=="Select" or f=="Select" or g=="Select" or h=="Select" or i=="Select" or j=="Select":
1370         messagebox.showerror("Incomplete","Please Select Or fill all the necessary details Correctly.")
1371     elif len(cus_address) >144 :
1372         messagebox.showerror(("Not Valid Address"),"Please only enter less than 144 Characters including Spaces"))
1373     elif len(cus_phone) >10 or len(cus_phone) < 10:
1374         messagebox.showerror("Not Valid Phone Number","Please Enter A Valid 10 digit Number")
1375
1376 else:
1377     sql = "SELECT S_No from marketed_vehical where Class = %s and Brand = %s and Model = %s and Year = %s and Colour = %s and Fuel = %s"
1378     cursor.execute(sql, (a, b, c, d, e, f, g, h, i, j))
1379     myresult = cursor.fetchall()
1380     vehical_Sno = myresult[0][0]
1381     print(vehical_Sno)
1382
1383
1384     sql1 = "SELECT max(S_NO) from customer_details ;"
1385     cursor.execute(sql1, )
1386     myresult1 = cursor.fetchall()
1387     customer_Sno1 = (myresult1[0][0]) + 1
1388     print(customer_Sno1)
1389     customer_Sno=str(customer_Sno1)
1390
1391     sql2 = "SELECT max(S_NO) from job_card ;"
1392     cursor.execute(sql2, )
1393     myresult2 = cursor.fetchall()
1394     jobcard_Sno1 = (myresult2[0][0]) + 1
1395     print(jobcard_Sno1)
1396     jobcard_Sno =str(jobcard_Sno1)
1397
1398     table_check = self.vclass_txt.get()
1399     if table_check == "Scooter":
1400         table_name = 'scooter_parts'
1401
1402     elif table_check == "Bike":
1403         table_name = 'bike_parts'
1404
1405     elif table_check == "Hatchback Car":
1406         table_name = 'hatchback_car_parts'
1407
1408     elif table_check == "Sedan Car":
1409         table_name = 'sedan_car_parts'

```

```

1408             |     table_name = 'sedan_car_parts'
1409
1410         elif table_check == "SUV Car":
1411             |     table_name = 'suv_car_parts'
1412
1413         jobperformed_S_no = ""
1414         jobhours_nos = ""
1415         cell10len = len(self.cells10)
1416         if cell10len > 1:
1417             minuscell10 = cell10len - 1
1418             finalcell10 = int(minuscell10 / 5 + 1)
1419             for j in range(1, finalcell10):
1420                 jobname = self.cells10[j, 1].get()
1421                 sql4 = "SELECT S_NO from job_performed where Job_Name = %s ;"
1422                 cursor.execute(sql4, (jobname,))
1423                 myresult4 = cursor.fetchall()
1424                 jobname_Sno = myresult4[0][0]
1425                 jobperformed_S_no = jobperformed_S_no + str(jobname_Sno) + ","
1426
1427                 jobhours1 = self.cells10[j, 2].get()
1428                 jobhours_nos = jobhours_nos + str(jobhours1) + ","
1429
1430                 print(jobperformed_S_no)
1431                 print(jobhours_nos)
1432
1433         if cell10len > 1:
1434             if jobhours_nos.find(",") ==-1:
1435                 if jobhours_nos[0] == ",": 
1436                     messagebox.showerror("Empty Field in Job Card", "Please Fill the No of Hours")
1437                 else:
1438                     print("not found")
1439                 else:
1440                     messagebox.showerror("Empty Field in Job Card", "Please Fill the No of Hours")
1441         parts_S_no1 = ""
1442         quantity_nos = ""
1443         cell9len = len(self.cells9)
1444         if cell9len > 1:
1445             minuscell9 = cell9len - 1
1446             finalcell9 = int(minuscell9 / 5 + 1)
1447             for i in range(1, finalcell9):
1448                 partname = self.cells9[i, 1].get()
1449                 sql3 = "SELECT S_NO from {} where Part_Name = %s ;".format(table_name)
1450                 cursor.execute(sql3, (partname,))
1451                 myresult3 = cursor.fetchall()
1452                 partname_Sno = myresult3[0][0]
1453                 parts_S_no1 = parts_S_no1 + str(partname_Sno) + ","
1454
1455                 quantity1 = self.cells9[i, 2].get()
1456                 quantity_nos = quantity_nos + str(quantity1) + ","
1457                 print(parts_S_no1)
1458                 print(quantity_nos)
1459             if quantity_nos.find(",") ==-1:
1460                 if quantity_nos[0] == ",": 
1461                     if cell9len > 1:

```

```

1459     if quantity_nos.find(",") ==-1:
1460         if quantity_nos[0] == ",":
1461             if cell9len > 1:
1462                 messagebox.showerror("Empty Field in Job Card","Please Fill the No of Quantity")
1463             else:
1464                 print("not found2")
1465             else:
1466                 messagebox.showerror("Empty Field in Job Card","Please Fill the No of Quantity")
1467
1468     import random
1469     import math
1470
1471     data = "0123456789"
1472     leng = len(data)
1473
1474     invoice_no = ""
1475
1476     for i in range(5):
1477         invoice_no += data[math.floor(random.random() * leng)]
1478
1479     print(invoice_no)
1480     self.invoice_no1 = str(invoice_no)
1481
1482     sql0 = "SELECT Registration_No from customer_details where Registration_No = %s ;"
1483     research = self.regsearch.get()
1484     cursor.execute(sql0, (research,))
1485     myresult0 = cursor.fetchall()
1486     print(myresult0)
1487     sql0 = "SELECT Registration_No from customer_details where Registration_No = %s ;"
1488     research = self.regsearch.get()
1489     cursor.execute(sql0, (research,))
1490     myresult0 = cursor.fetchall()
1491     print(myresult0)
1492     if len(myresult0) == 0:
1493         finalresult0 = '0'
1494     else:
1495         finalresult0 = myresult0[0][0]
1496
1497     if finalresult0 != research:
1498         if messagebox.askyesno("Are You Sure","The Details you entered Once Saved won't be changed. IF Correct then Click on 'Yes' otherwise Click on 'No'"):
1499             sql5 = "INSERT INTO customer_details VALUES( %s , %s ,%s , %s , %s , %s );"
1500             cursor.execute(sql5,(customer_Sno, research, cus_name, cus_phone, cus_address, vehical_Sno))
1501             connection.commit()
1502             print(cursor.rowcount, "record5 inserted.")
1503
1504             sql6 = "INSERT INTO job_card VALUES(%s , %s , %s , %s, %s , %s , %s , %s ,curdate(),curtime(), %s ) ;"
1505             cursor.execute(sql6, (jobcard_Sno, research, latest_KM, parts_S_no1, jobhours_nos, quantity_nos, self.invoice_no1, jobperformed_S))
1506             connection.commit()
1507             print(cursor.rowcount, "record6 inserted.")
1508             self.Generate_btn.config(state="normal")
1509
1510     else:
1511         sql7 = "INSERT INTO job_card VALUES(%s , %s , %s , %s, %s , %s , %s , %s ,curdate(),curtime(), %s ) ;"
1512         cursor.execute(sql7, (jobcard_Sno, research, latest_KM, parts_S_no1, jobhours_nos, quantity_nos, self.invoice_no1, jobperformed_S))
1513         connection.commit()
1514         print(cursor.rowcount, "record6 inserted.")

```

```

1503     self.Generate_btn.config(state="normal")
1504
1505     else:
1506         sql7 = "INSERT INTO job_card VALUES(%s , %s , %s , %s, %s , %s , %s ,%s ,curdate(),curtime(), %s )"
1507         cursor.execute(sql7, (jobcard_Sno, research, latest_KM, parts_S_no1, jobhours_nos, quantity_nos, self.invoice_no1,jobperformed_S_
1508         connection.commit()
1509         print(cursor.rowcount, "record6 inserted.")
1510         self.Generate_btn.config(state="normal")
1511
1512
1513
1514
1515
1516
1517     finally:
1518         if (connection.is_connected()):
1519             cursor.close()
1520             connection.close()
1521         print("MySQL connection is closed")
1522
1523
1524
1525     def generatebill(self):
1526         import webbrowser
1527         from reportlab.pdfgen import canvas
1528         from reportlab.platypus import Paragraph, Table, TableStyle, Frame
1529         from reportlab.lib import colors
1530         from reportlab.lib.pagesizes import A4
1531     def generatebill(self):
1532         import webbrowser
1533         from reportlab.pdfgen import canvas
1534         from reportlab.platypus import Paragraph, Table, TableStyle, Frame
1535         from reportlab.lib import colors
1536         from reportlab.lib.pagesizes import A4
1537         from reportlab.lib.styles import getSampleStyleSheet
1538         from reportlab.lib.units import inch
1539         from reportlab.lib.styles import ParagraphStyle
1540         from reportlab.lib.enums import TA_CENTER
1541         from reportlab.pdfbase.ttfonts import TTFont, TTEncoding
1542         pdf = canvas.Canvas("pdf2342.pdf", pagesize=A4)
1543         flow_obj = []
1544         styles = getSampleStyleSheet()
1545
1546         # Company Name
1547         p = ParagraphStyle('test')
1548         p.textColor = 'black'
1549         p.borderColor = 'black'
1550         p.alignment = TA_CENTER
1551         p.fontSize = 15
1552         text1 = Paragraph("Shiva Auto Services", p)
1553         flow_obj.append(text1)
1554         frame1 = Frame(5, 800, 150, 40, showBoundary=0)
1555         frame1.addFromList(flow_obj, pdf)
1556
1557         # Tagline

```

```

1602     t = Table([["DATE", datefromdb, "INVOICE #", "INV-00-"+self.invoice_no1]], colWidths=[2.06 * inch] * 5)
1603     ts = TableStyle([('BACKGROUND', (0, 0), (-1, -1), colors.white),
1604                         ('TEXTCOLOR', (0, 0), (-1, 0), colors.black),
1605                         ('TEXTCOLOR', (0, 0), (0, 0), colors.blue),
1606                         ('TEXTCOLOR', (2, 0), (2, 0), colors.blue),
1607                         ('ALIGN', (2, 0), (2, 0), 'RIGHT')])
1608
1609     ])
1610     t.setStyle(ts)
1611     flow_obj.append(t)
1612     frame1 = Frame(0, 758, 595, 30, showBoundary=0)
1613     frame1.addFromList(flow_obj, pdf)
1614
1615     # Customer info and vehical info header
1616     column_width9 = 2.06 * inch
1617     column_width10 = 3.0 * inch
1618     column_width11 = 2.06 * inch
1619     column_width12 = 2.06 * inch
1620     t = Table([["CUSTOMER INFO", "", "VEHICLE INFO", ""]], colWidths=[2.06 * inch] * 5)
1621     ts = TableStyle([('BACKGROUND', (0, 0), (-1, -1), colors.blue),
1622                         ('TEXTCOLOR', (0, 0), (-1, 0), colors.white)])
1623     ])
1624     t.setStyle(ts)
1625     flow_obj.append(t)
1626     frame1 = Frame(0, 730, 595, 30, showBoundary=0)
1627     frame1.addFromList(flow_obj, pdf)
1628
1629     # Customer info and vehical info
1630
1631     # Customer info and vehical info
1632
1633     address1 = str(self.caddress_txt.get(1.0,END))
1634     print(type(address1))
1635     length1 = len(address1)
1636     length2 = length1-1
1637     print(length1)
1638     line1 = ""
1639     if length1 > 96 and length1 <= 144:
1640         line1 = address1[0:48] + "-"
1641         line2 = address1[49:96] + "-"
1642         line3 = address1[97:length2]
1643     elif length1 > 48 and length1 <= 96:
1644         line1 = address1[0:48] + "-"
1645         line2 = address1[49:length2]
1646     else:
1647         line1 = address1[0:length2]
1648     print(line1)
1649
1650     column_width5 = 2.06 * inch
1651     column_width6 = 3.0 * inch
1652     column_width7 = 2.06 * inch
1653     column_width8 = 2.06 * inch
1654     t = Table([["NAME:", self.customer.get(), "BRAND", self.Brand.get()],
1655               ["", "", "MODEL", self.model.get()],
1656               ["ADDRESS:", line1, "YEAR", self.year.get()],
1657               ["", "", ""]])

```

```

1650
1651
1652
1653
1654     column_width5 = 2.06 * inch
1655     column_width6 = 3.0 * inch
1656     column_width7 = 2.06 * inch
1657     column_width8 = 2.06 * inch
1658
1659     t = Table([["NAME:", self.customer.get(), "BRAND", self.Brand.get()],
1660                 ["", "", "MODEL", self.model.get()],
1661                 ["ADDRESS:", line1, "YEAR", self.year.get()],
1662                 [ "", line2, "COLOR", self.colour.get()],
1663                 [ "", line3, "CC", self.cc.get()],
1664                 ["Phone No:", self.Phone.get(), "REG#", self.regsearch.get()],
1665                 [ "", "", "KM", self.KM.get()]], colWidths=[2.06 * inch] * 5)
1666
1667     ts = TableStyle([("BACKGROUND", (0, 0), (-1, -1), colors.lightblue),
1668                       #("GRID", (0,0),(-1,-1).1,colors.yellow),
1669                       ("TEXTCOLOR", (0, 0), (-1, -1), colors.blue),
1670                       ('ALIGN', (0, 0), (-1, -1), 'RIGHT'),
1671                       ("ALIGN", (1, 0), (1, 6), "LEFT"),
1672                       ("ALIGN", (3, 0), (3, 6), "LEFT"),
1673                       ("TEXTCOLOR", (1, 0), (1, 6), colors.black),
1674                       ("TEXTCOLOR", (3, 0), (3, 6), colors.black),
1675
1676                   ])
1677
1678     t.setStyle(ts)
1679     flow_obj.append(t)
1680
1681     frame1 = Frame(0, 592, 595, 150, showBoundary=0)
1682     frame1.addFromList(flow_obj, pdf)
1683
1684
1685 # Job Performed
1686
1687
1688 jobperformed_data = [["Job Performed", "Hours", "Rate", "Amount"],
1689                         [ "", "", "", "-"],
1690                         [ "", "", "", "-"],
1691                         [ "", "", "", "-"],
1692                         [ "", "", "", "-"],
1693                         [ "", "", "", "-"],
1694                         [ "", "", "", "-"],
1695                         [ "", "", "", "-"],
1696                         [ "", "", "", "-"], ]
1697
1698     lencell10 = len(self.cells10)
1699     minuscell10 = lencell10-1
1700     finalcell10 = int(minuscell10/5 +1)
1701
1702
1703     if finalcell10>1:
1704         for i in range(1,finalcell10):
1705             jobperformed_data[i][0] = str(self.cells10[i,1].get())
1706             jobperformed_data[i][1] = str(self.cells10[i,2].get())
1707             jobperformed_data[i][2] = str(self.cells10[i,3].get())
1708             jobperformed_data[i][3] = str(self.cells10[i,4].get())
1709
1710
1711     column_width13 = 5.09 * inch
1712     column_width14 = 1.06 * inch
1713     column_width15 = 1.06 * inch
1714     column_width16 = 1.06 * inch
1715
1716     t = Table(jobperformed_data, colWidths=[column_width13, column_width14, column_width15, column_width16] * 5)

```

```

1699     column_width13 = 5.09 * inch
1700     column_width14 = 1.06 * inch
1701     column_width15 = 1.06 * inch
1702     column_width16 = 1.06 * inch
1703     t = Table(jobperformed_data, colWidths=[column_width13, column_width14, column_width15, column_width16] * 5)
1704     ts = TableStyle([("BACKGROUND", (0, 0), (-1, 0), colors.blue),
1705                         ("TEXTCOLOR", (0, 0), (-1, 0), colors.white),
1706                         ("GRID", (0, 1), (-1, -1), 1, colors.black),
1707                         ("ALIGN", (1, 0), (1, 8), "CENTER"),
1708                         ("ALIGN", (2, 0), (2, 8), "CENTER"),
1709                         ("ALIGN", (3, 0), (3, 8), "CENTER"),
1710                     ])
1711     t.setStyle(ts)
1712     flow_obj.append(t)
1713     frame1 = Frame(0, 436, 595, 180, showBoundary=0)
1714     frame1.addFromList(flow_obj, pdf)
1715
1716     # Job Performed Calculation
1717     column_width17 = 5.68 * inch
1718     column_width18 = 1.0 * inch
1719     column_width19 = 0.5 * inch
1720     column_width20 = 1.06 * inch
1721     rupee_uni = "\u20B9"
1722     print(rupee_uni)
1723     t = Table([["", "SUBTOTAL", "$", self.TotalLabour.get()],
1724               ["", "GST", "28%", self.GstLabour.get()]],
1725               colWidths=[column_width17, column_width18, column_width19, column_width20] * 5)
1726     ts = TableStyle([("BACKGROUND", (0, 0), (-1, -1), colors.white),
1727                         ("TEXTCOLOR", (0, 0), (-1, -1), colors.blue),
1728                         # ("GRID", (0,0),(-1,-1),1,colors.black),
1729                         ("ALIGN", (0, 0), (-1, -1), "CENTER")
1730                     ])
1731     t.setStyle(ts)
1732     flow_obj.append(t)
1733     frame1 = Frame(0, 400, 595, 50, showBoundary=0)
1734     frame1.addFromList(flow_obj, pdf)
1735
1736     # Parts
1737
1738
1739     Partspurchased_data = [["PART #", "PART NAME", "QTY", "UNIT PRICE", "AMOUNT"],
1740                           ["", "", "", "", "-"], 
1741                           ["", "", "", "", "-"], 
1742                           ["", "", "", "", "-"], 
1743                           ["", "", "", "", "-"], 
1744                           ["", "", "", "", "-"], 
1745                           ["", "", "", "", "-"], 
1746                           ["", "", "", "", "-"], 
1747                           ["", "", "", "", "-"], ]
1748
1749     lencell9 = len(self.cells9)
1750     minuscell9 = lencell9 - 1
1751     finalcell9 = int(minuscell9 / 5 + 1)

```

```

1750
1751     minuscell9 = len(cell9) - 1
1752     finalcell9 = int(minuscell9 / 5 + 1)
1753
1754     if finalcell9 > 1:
1755         for j in range(1, finalcell9):
1756             Partspurchased_data[j][0] = str(self.cells9[j, 0].get())
1757             Partspurchased_data[j][1] = str(self.cells9[j, 1].get())
1758             Partspurchased_data[j][2] = str(self.cells9[j, 2].get())
1759             Partspurchased_data[j][3] = str(self.cells9[j, 3].get())
1760             Partspurchased_data[j][4] = str(self.cells9[j, 4].get())
1761
1762             column_width21 = 0.7 * inch
1763             column_width22 = 4.5 * inch
1764             column_width23 = 1.00 * inch
1765             column_width24 = 1.00 * inch
1766             column_width25 = 1.06 * inch
1767             t = Table(Partspurchased_data, colWidths=[column_width21, column_width22, column_width23, column_width24, column_width25] * 5)
1768             ts = TableStyle([("BACKGROUND", (0, 0), (-1, 0), colors.blue),
1769                             ("GRID", (0, 0), (-1, -1), 1, colors.black),
1770                             ("TEXTCOLOR", (0, 0), (-1, 0), colors.white),
1771                             ("ALIGN", (2, 0), (2, 8), "CENTER"),
1772                             ("ALIGN", (3, 0), (3, 8), "CENTER"),
1773                             ("ALIGN", (4, 0), (4, 8), "CENTER"),
1774                             ])
1775             t.setStyle(ts)
1776             flow_obj.append(t)
1777             frame1 = Frame(0, 230, 595, 180, showBoundary=0)
1778             frame1.addFromList(flow_obj, pdf)
1779
1780             # Parts Calculation
1781
1782             labourgst = float(self.GstLabour.get())
1783             partsgst = float(self.GstParts.get())
1784             Total_Gst = labourgst + partsgst
1785
1786             column_width26 = 1.06 * inch
1787             column_width27 = 0.5 * inch
1788             column_width28 = 1.06 * inch
1789             t = Table([["SUBTOTAL", "$", self.Totalpart.get()],
1790                       ["GST", "28%", self.GstParts.get()],
1791                       ["", "", ""],
1792                       ["TOTAL LABOUR", "$", self.TotalLabour.get()],
1793                       ["TOTAL PARTS", "$", self.Totalpart.get()],
1794                       ["GST", "$", Total_Gst],
1795                       ["TOTAL", "$", self.GrandTotal.get()]], colWidths=[column_width26, column_width27, column_width28] * 5)
1796             ts = TableStyle([("BACKGROUND", (0, 0), (-1, -1), colors.white),
1797                             ("TEXTCOLOR", (0, 0), (-1, -1), colors.blue),
1798                             # ("GRID", (0,0),(-1,-1),1,colors.black),
1799                             ("ALIGN", (0, 0), (-1, -1), "CENTER")
1800                             ])
1801             t.setStyle(ts)
1802             flow_obj.append(t)
1803             frame1 = Frame(400, 94, 210, 150, showBoundary=0)

```

```

1803     frame1 = Frame(400, 94, 210, 150, showBoundary=0)
1804     frame1.addFromList(flow_obj, pdf)
1805
1806     # COMMENTS FRAME
1807     p3 = ParagraphStyle('test')
1808     p3.textColor = 'blue'
1809     p3.borderColor = 'black'
1810     p3.alignment = TA_CENTER
1811     p3.fontSize = 10
1812     text1 = Paragraph("COMMENTS", p3)
1813     flow_obj.append(text1)
1814     frame = Frame(-10, 185, 100, 30, showBoundary=0)
1815     frame.addFromList(flow_obj, pdf)
1816
1817     # Comment Text Frame
1818     p4 = ParagraphStyle('test')
1819     p4.textColor = 'black'
1820     p4.borderColor = 'black'
1821     p4.alignment = TA_CENTER
1822     p4.fontSize = 8
1823     text1 = Paragraph("Please include the invoice number as reference when paying online or by check", p4)
1824     flow_obj.append(text1)
1825     frame = Frame(-8, 166, 320, 30, showBoundary=0)
1826     frame.addFromList(flow_obj, pdf)
1827
1828     # Make all Line
1829     p5 = ParagraphStyle('test')
1830
1831     p5.borderColor = 'black'
1832     p5.alignment = TA_CENTER
1833     p5.fontSize = 8
1834     text1 = Paragraph("Make all checks payable to", p5)
1835     flow_obj.append(text1)
1836     frame = Frame(373, 80, 150, 30, showBoundary=0)
1837     frame.addFromList(flow_obj, pdf)
1838
1839     # Shiva Auto Services
1840     p6 = ParagraphStyle('test')
1841     p6.textColor = 'blue'
1842     p6.borderColor = 'black'
1843     p6.alignment = TA_CENTER
1844     p6.fontSize = 10
1845     text1 = Paragraph("Shiva Auto Services", p6)
1846     flow_obj.append(text1)
1847     frame = Frame(380, 72, 130, 30, showBoundary=0)
1848     frame.addFromList(flow_obj, pdf)
1849
1850     # Thankq For the Business
1851     p7 = ParagraphStyle('test')
1852     p7.textColor = 'blue'
1853     p7.borderColor = 'black'
1854     p7.alignment = TA_CENTER
1855     p7.fontSize = 12
1856     text1 = Paragraph("Thank you for your business!", p6)
1857     flow_obj.append(text1)
1858

```

```

1910     pdf.setLineWidth(2)
1911     pdf.setStrokeColor(colors.black)
1912     pdf.line(0, 195, 400, 195)
1913
1914     pdf.save()
1915
1916     webbrowser.open_new("pdf2342.pdf")
1917     self.Generate_btn.config(state="normal")
1918
1919     def clearall(self):
1920         cell4_len = len(self.cells4)
1921         cell6_len = len(self.cells6)
1922         dell4_len = cell4_len - 1
1923         dell6_len = cell6_len - 1
1924         final_cell4 = int(dell4_len / 5)
1925         final_cell6 = int(dell6_len / 5)
1926         final_cell4 = final_cell4 + 1
1927         final_cell6 = final_cell6 + 1
1928
1929         if final_cell4 > 1:
1930             for row in range(1, final_cell4):
1931                 self.cells4[row, 0].destroy()
1932                 self.cells4[row, 1].destroy()
1933                 self.cells4[row, 2].destroy()
1934                 self.cells4[row, 3].destroy()
1935                 self.cells4[row, 4].destroy()
1936
1937             if final_cell6 > 1:
1938                 for row1 in range(1, final_cell6):
1939                     self.cells6[row1, 0].destroy()
1940                     self.cells6[row1, 1].destroy()
1941                     self.cells6[row1, 2].destroy()
1942                     self.cells6[row1, 3].destroy()
1943                     self.cells6[row1, 4].destroy()
1944
1945             self.cells4.clear()
1946             self.cells4[0,0] =Entry()
1947             self.cells6.clear()
1948             self.cells6[0,0] =Entry()
1949
1950             cell2_len = len(self.cells2)
1951             dell2_len = cell2_len - 1
1952             final_cell2 = int(dell2_len / 5 +1)
1953             if final_cell2 > 1:
1954                 for row3 in range(1, final_cell2):
1955                     self.cells2[row3, 0].destroy()
1956                     self.cells2[row3, 1].destroy()
1957                     self.cells2[row3, 2].destroy()
1958                     self.cells2[row3, 3].destroy()
1959                     self.cells2[row3, 4].destroy()
1960
1961             self.cells2.clear()
1962             self.cells2[0,0] =Entry()
1963

```

```

1964     self.cells7.clear()
1965     self.cells8.clear()
1966
1967     cell9_len = len(self.cells9)
1968     dell9_len = cell9_len - 1
1969     final_cell9 = int(dell9_len / 5 + 1)
1970     if final_cell9 > 1:
1971         for row4 in range(1, final_cell9):
1972             self.cells9[row4, 0].destroy()
1973             self.cells9[row4, 1].destroy()
1974             self.cells9[row4, 2].destroy()
1975             self.cells9[row4, 3].destroy()
1976             self.cells9[row4, 4].destroy()
1977
1978     cell10_len = len(self.cells10)
1979     dell10_len = cell10_len - 1
1980     final_cell10 = int(dell10_len / 5 + 1)
1981     if final_cell10 > 1:
1982         for row5 in range(1, final_cell10):
1983             self.cells10[row5, 0].destroy()
1984             self.cells10[row5, 1].destroy()
1985             self.cells10[row5, 2].destroy()
1986             self.cells10[row5, 3].destroy()
1987             self.cells10[row5, 4].destroy()
1988
1989     self.cells9.clear()
1990     self.cells9[0,0] = Entry()
1991     self.cells9.clear()
1992     self.cells10.clear()
1993     self.cells10[0,0] = Entry()
1994
1995     self.KM.set("")
1996     self.vkm_txt.config(state="readonly")
1997     self.entry.config(state="readonly")
1998     self.regsearch.set("")
1999     self.Reg22_txt.config(state="normal")
2000     self.icon_btn.config(state="normal")
2001     self.Generate_btn.config(state="disabled")
2002     self.customer.set("")
2003     self.Phone.set("")
2004     self.caddress_txt.config(state="normal")
2005     self.caddress_txt.delete(1.0,END)
2006     self.caddress_txt.config(state="disabled")
2007     self.cname_txt.config(state="readonly")
2008     self.cphone_txt.config(state="readonly")
2009     self.vclass_txt.set("")
2010     self.vclass_txt.config(state="disabled")
2011     self.vbrand_txt.set("")
2012     self.vbrand_txt.config(state="disabled")
2013     self.vmodel_txt.set("")
2014     self.vmodel_txt.config(state="disabled")
2015     self.vyear_txt.set("")
2016     self.vyear_txt.config(state="disabled")

```

```
2015     self.vyear_txt.config(state="disabled")
2016     self.vcolour_txt.set("")
2017     self.vcolour_txt.config(state="disabled")
2018     self.vfuel_txt.set("")
2019     self.vfuel_txt.config(state="disabled")
2020     self.vwheels_txt.set("")
2021     self.vwheels_txt.config(state="disabled")
2022     self.vcc_txt.set("")
2023     self.vcc_txt.config(state="disabled")
2024     self.vgear_txt.set("")
2025     self.vgear_txt.config(state="disabled")
2026     self.vpower_txt.set("")
2027     self.vpower_txt.config(state="disabled")
2028     self.TotalLabour.set("")
2029     self.Totalpart.set("")
2030     self.GrandTotal.set("")
2031     self.GstLabour.set("")
2032     self.GstParts.set("")
2033     self.newjob.config(state="disabled")
2034     self.newcustomer.config(state="disabled")
2035
2036     def exitbutton(self):
2037         sys.exit(0)
2038
2039
2040
2041
2042
```

Data Base Structure and Data: -

```
mysql> use bill;
Database changed
mysql> show tables;
+-----+
| Tables_in_bill |
+-----+
| bike_parts
| customer_details
| hatchback_car_parts
| job_card
| job_performed
| login
| marketed_vehical
| scooter_parts
| sedan_car_parts
| suv_car_parts
+-----+
10 rows in set (0.02 sec)
```

```
mysql> desc customer_details;
+-----+-----+-----+-----+-----+-----+
| Field      | Type       | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| S_no        | int         | YES  |     | NULL    |       |
| Registration_No | varchar(10) | NO   | PRI | NULL    |       |
| Customer_Name | char(30)    | YES  |     | NULL    |       |
| Phone_No    | bigint      | YES  |     | NULL    |       |
| Address     | varchar(150) | YES  |     | NULL    |       |
| Vehical_Sn  | int         | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

```

mysql> select * from customer_details;
+-----+-----+-----+-----+-----+
| S_no | Registration_No | Customer_Name | Phone_No | Address | Vehical_Sn |
+-----+-----+-----+-----+-----+
| 6 | MP14MG9875 | Robert Thomas | 9876543210 | H-764,police colony,mandsaur, m.p, 458001 |
| 9 | | | | |
| 5 | MP14MH5469 | Gurjar Singh | 9876543210 | D-09,kityani mandsaur m.p 458001 |
| 10 | | | | |
| 3 | MP14MJ4578 | Jon Thomas | 9876543210 | S-67,Pihor Colony, indore M.P 458001 |
| 10 | | | | |
| 8 | MP14MK2325 | Manoj Reddi | 9876543210 | A-876,Gandhi Choraha Mandsaur M.P 458001 |
| 25 | | | | |
| 4 | MP14MK9523 | Jon Watson | 9876543212 | A-43,pihor colony, mandsaur , m.p 458001 |
| 10 | | | | |
| 1 | MP14MK9564 | Ayush Sharma | 9826204582 | A-34,Gandhi Nagar,Mandsaur,MP,458001 |
| 2 | MP14MK9988 | Jeff Bezos | 9876543210 | A-32,jagah khedi, mandsaur, m.p 458001 |
| 13 | | | | |
| 7 | MP14MY5687 | Mahesh Joshi | 9876543210 | D-56,Ram Tekri, Mandsaur, M.P, 458001 |
| 10 | | | | |
| 9 | MP65MJ5487 | Shiva Hari V Mohan | 0 | Haveli Mandsaur M.P 458001 |
| 13 | | | | |
+-----+-----+-----+-----+-----+
9 rows in set (0.07 sec)

```

```

mysql> desc login;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| S_No | int | YES | NULL | NULL | |
| User_ID | varchar(20) | NO | PRI | NULL | |
| password | varchar(50) | YES | NULL | NULL | |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

```

```

mysql> select * from login;
+-----+-----+
| S_No | User_ID | password |
+-----+-----+
| 1 | login | 2736fab291f04e69b62d490c3c09361f5b82461a |
+-----+-----+
1 row in set (0.06 sec)

```

```

mysql> desc marketed_vehical;
+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| S_No  | int    | NO   | PRI | NULL    |       |
| Class | char(10) | YES  |     | NULL    |       |
| Brand | char(10) | YES  |     | NULL    |       |
| Model | varchar(50) | YES  |     | NULL    |       |
| Year  | int    | YES  |     | NULL    |       |
| Colour | varchar(50) | YES  |     | NULL    |       |
| Fuel  | char(10) | YES  |     | NULL    |       |
| Wheels | int    | YES  |     | NULL    |       |
| CC    | decimal(6,2) | YES  |     | NULL    |       |
| Gear  | char(10) | YES  |     | NULL    |       |
| Power_HP | decimal(6,2) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
11 rows in set (0.00 sec)

```

```

mysql> select * from marketed_vehical;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| S_No | Class | Brand | Model | Year | Colour | Fuel | Wheels | CC | Gear | Power_HP |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Scooter | Honda | Activa 6G | 2020 | Black | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 2 | Scooter | Honda | Activa 6G | 2020 | Pearl Precious White | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 4 | Scooter | Honda | Activa 6G | 2020 | Matte Axis Grey | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 5 | Scooter | Honda | Activa 6G | 2020 | Pearl Spartan Red | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 6 | Scooter | Honda | Activa 6G | 2020 | Glitter Blue | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 7 | Scooter | Honda | Activa 5G | 2018 | Glitter Blue | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 8 | Scooter | Honda | Activa 5G | 2018 | Pearl Spartan Red | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 9 | Scooter | Honda | Activa 5G | 2018 | Black | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 10 | Scooter | Honda | Activa 5G | 2018 | Matte Selene Silver | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 11 | Scooter | Honda | Activa 5G | 2018 | Trance Blue Metallic | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 12 | Scooter | Honda | Activa 5G | 2018 | Pearl Precious White and Matte Selene Silver | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 13 | Scooter | Honda | Activa 5G | 2018 | Majestic Brown Metallic | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 14 | Scooter | Honda | Activa 5G | 2018 | Dazzle Yellow Metallic | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 15 | Scooter | Honda | Activa 5G | 2018 | Pearl Amazing White | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 16 | Scooter | Honda | Activa 5G | 2018 | Silver and black | Petrol | 2 | 109.00 | Automatic | 7.79 |
| 17 | Scooter | TVS | Jupiter STD BS6 | 2020 | Tech Blue | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 18 | Scooter | TVS | Jupiter STD BS6 | 2020 | Autumn Brown | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 19 | Scooter | TVS | Jupiter STD BS6 | 2020 | Sunlit Ivory | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 20 | Scooter | TVS | Jupiter STD BS6 | 2020 | Volcano Red | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 21 | Scooter | TVS | Jupiter STD BS6 | 2020 | Titanium Grey | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 22 | Scooter | TVS | Jupiter STD BS6 | 2020 | Mystic Gold | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 23 | Scooter | TVS | Jupiter STD BS6 | 2020 | Midnight Black | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 24 | Scooter | TVS | Jupiter STD BS6 | 2020 | Matte Silver | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 25 | Scooter | TVS | Jupiter STD BS6 | 2020 | Matte Blue | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 26 | Scooter | TVS | Jupiter STD BS6 | 2020 | Starlight Blue | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 27 | Scooter | TVS | Jupiter STD BS6 | 2020 | Royal Wine | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 28 | Scooter | TVS | Jupiter ZX BS6 | 2020 | Starlight Blue | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 29 | Scooter | TVS | Jupiter ZX BS6 | 2020 | Royal Wine | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 30 | Scooter | TVS | Jupiter Grande Edition BS6 | 2020 | Tech Blue | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 31 | Scooter | TVS | Jupiter Grande Edition BS6 | 2020 | Autumn Brown | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 32 | Scooter | TVS | Jupiter Grande Edition BS6 | 2020 | Sunlit Ivory | Petrol | 2 | 109.70 | Automatic | 7.99 |
| 33 | Scooter | Hero | Maestro Edge VX | 2018 | Techno Blue | Petrol | 2 | 110.90 | Automatic | 8.15 |
| 34 | Scooter | Hero | Maestro Edge VX | 2018 | Shooting Night Star | Petrol | 2 | 110.90 | Automatic | 8.15 |
| 35 | Scooter | Hero | Maestro Edge VX | 2018 | Pearl Silver White | Petrol | 2 | 110.90 | Automatic | 8.15 |
| 36 | Scooter | Hero | Maestro Edge VX | 2018 | Panther Black | Petrol | 2 | 110.90 | Automatic | 8.15 |
| 37 | Scooter | Hero | Maestro Edge VX | 2018 | Matte Vernier Grey | Petrol | 2 | 110.90 | Automatic | 8.15 |
| 38 | Scooter | Hero | Maestro Edge VX | 2018 | Matte Blue | Petrol | 2 | 110.90 | Automatic | 8.15 |
| 39 | Scooter | Hero | Maestro Edge VX | 2018 | Candy Blazing Red | Petrol | 2 | 110.90 | Automatic | 8.15 |

```

```
mysql> desc job_card;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| S_No | int | YES | NULL | NULL | NULL |
| Registration_No | varchar(10) | YES | NULL | NULL | NULL |
| Total_Km | int | YES | NULL | NULL | NULL |
| Part_S_No | varchar(20) | YES | NULL | NULL | NULL |
| Hour | varchar(20) | YES | NULL | NULL | NULL |
| Quantity | varchar(20) | YES | NULL | NULL | NULL |
| Invoice_NO | int | NO | PRI | NULL | NULL |
| Bill_Date | date | YES | NULL | NULL | NULL |
| Bill_Time | time | YES | NULL | NULL | NULL |
| job_name | varchar(20) | YES | NULL | NULL | NULL |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

```
mysql> select * from job_card;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| S_No | Registration_No | Total_Km | Part_S_No | Hour | Quantity | Invoice_NO | Bill_Date | Bill_Time | job_name |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 8 | MP14MJ4578 | 15878 | 6, | 9, | 1, | 12569 | 2020-05-19 | 18:55:19 | 1, |
| 3 | MP14MK9564 | 8000 | 4,1, | 5, | 1,1,1, | 21258 | 2019-11-21 | 17:38:50 | 1, |
| 1 | MP14MK9564 | 12000 | 1,4,3, | 5, | 1,1,1, | 21548 | 2020-05-19 | 17:38:50 | 1, |
| 2 | MP14MK9564 | 10000 | 1,4,1, | 5, | 1,1,1, | 21958 | 2020-01-21 | 17:38:50 | 1, |
| 5 | MP14MK9988 | 19500 | 6, | 6, | 1,1, | 23222 | 2020-05-19 | 09:18:05 | 1, |
| 12 | MP14MY5687 | 14658 | 3,1, | 6, | 1,1, | 29374 | 2020-05-19 | 19:38:08 | 1, |
| 14 | MP65MJ5487 | 5487 | 6,3, | 10, | 1,1, | 31219 | 2020-05-25 | 16:58:56 | 1, |
| 10 | MP14MH5469 | 14879 | 3, | 9, | 1, | 32536 | 2020-05-19 | 19:08:40 | 1, |
| 13 | MP14MK2325 | 8254 | 5, | 5, | 1, | 66329 | 2020-05-25 | 16:52:50 | 1, |
| 6 | MP14MK9988 | 20000 | 1, | 6, | 1, | 75619 | 2020-05-19 | 09:22:18 | 1, |
| 11 | MP14MG9875 | 2564 | 6, | 6, | 1, | 84722 | 2020-05-19 | 19:24:11 | 1, |
| 4 | MP14MK9988 | 15480 | 3,1, | 9, | 1,1, | 87824 | 2020-05-19 | 09:12:06 | 1, |
| 9 | MP14MK9523 | 14769 | 3, | 9, | 1, | 98693 | 2020-05-19 | 18:58:33 | 1, |
| 7 | MP14MK9988 | 26546 | 9, | 9, | 1, | 99021 | 2020-05-19 | 09:35:14 | 1, |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
14 rows in set (0.04 sec)
```

```
mysql> desc job_performed;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| S_No | int | YES | NULL | NULL | NULL |
| Job_Name | varchar(50) | NO | PRI | NULL | NULL |
| Rate | decimal(6,2) | YES | NULL | NULL | NULL |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select* from job_performed;
+-----+-----+-----+
| S_No | Job_Name | Rate   |
+-----+-----+-----+
|    1 | Labour   | 70.00 |
+-----+-----+-----+
1 row in set (0.01 sec)
```

```
mysql> desc scooter_parts;
+-----+-----+-----+-----+-----+-----+
| Field      | Type       | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| S_No        | int         | YES  |     | NULL    |       |
| Part_No     | int         | NO   | PRI | NULL    |       |
| Model       | varchar(150) | YES  |     | NULL    |       |
| Part_Name   | varchar(90)  | YES  |     | NULL    |       |
| Rate         | decimal(6,2) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> select * from scooter_parts;
+-----+-----+-----+-----+-----+-----+
| S_No | Part_No | Model      | Part_Name      | Rate   |
+-----+-----+-----+-----+-----+-----+
|    1 | 10011   | Activa 5G  | Side Stand    | 315.00 |
|    2 | 10012   | Activa 5G  | Leg Guard     | 530.00 |
|    3 | 10013   | Activa 5G  | Grip Set      | 57.00  |
|    4 | 10014   | Activa 5G  | Silencer Assly| 1656.00 |
|    5 | 10015   | Activa 5G  | Rider Foot Rest| 99.00  |
|    6 | 10016   | Activa 5G  | No Plate      | 100.00 |
|    7 | 10017   | Activa 5G  | Meter Cover   | 284.00 |
|    8 | 10018   | Activa 5G  | Inner Cover   | 1117.00 |
|    9 | 10019   | Activa 5G  | Horn          | 203.00 |
+-----+-----+-----+-----+-----+
9 rows in set (0.06 sec)
```

Chapter 8

TESTING

8.1 Login Page Test Case Diagram

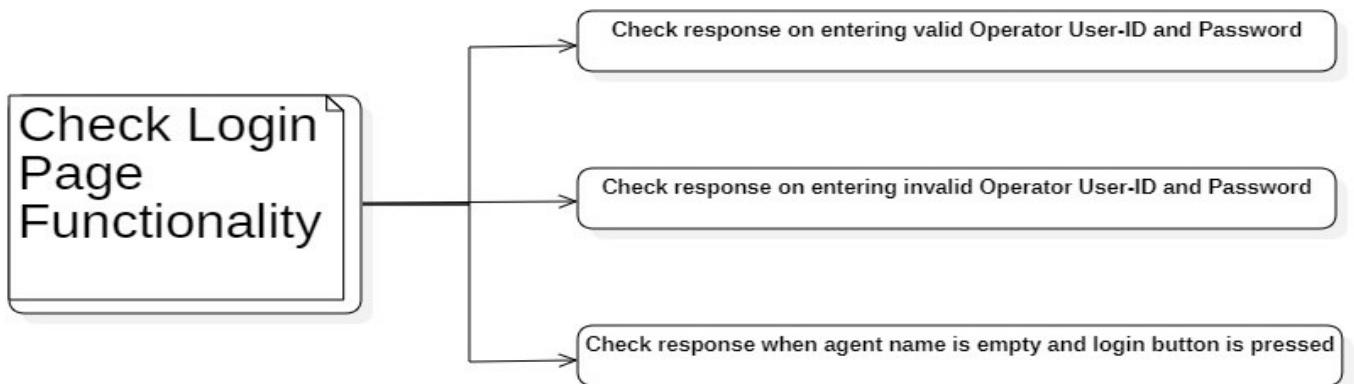


Fig: -8.1

8.2 Bill Page Test Case Diagram

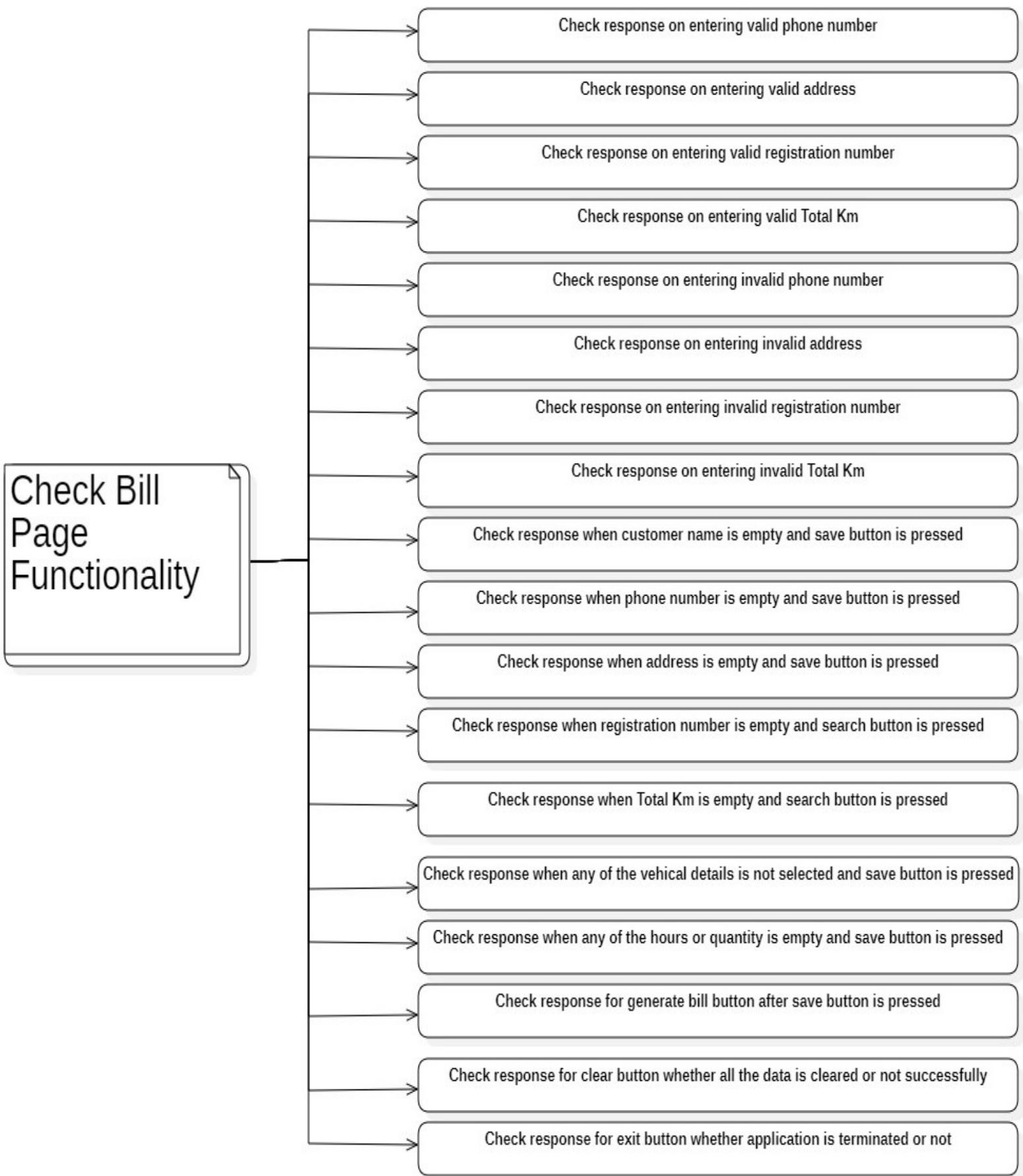


Fig: - 8.2

Chapter 9

LIMITATIONS OF PROJECT

1. It is only meant for specific Invoice generation i.e. “Automobile Service Billing”.
2. Requires PDF reader most recommended Google Chrome Browser or Adobe Acrobat Reader.
3. Requires Python 3.7 interpreter installed in your system, windows don’t provide it by default.

Chapter 10

CONCLUSION

This was my project of System Design about “Billing System”. Development of this System takes a lot of efforts. I think this system gave a lot of satisfaction. Though every task is never said to be perfect in this development field even more improvement may be possible in this system. I learnt so many things and gained a lot of knowledge about development field. I hope this will prove fruitful.

Chapter 11

BIBLIOGRAPHY/REFERENCES

1. <https://stackoverflow.com/>
2. <https://github.com/>
3. <https://www.tutorialspoint.com/>
4. <https://www.geeksforgeeks.org/>
5. <https://www.javatpoint.com/>
6. <https://docs.python.org/3/>
7. <https://www.w3schools.com/python/>
8. <https://www.programiz.com/>
9. <https://www.reportlab.com/docs/reportlab-userguide.pdf>