

# Database Management Project Week -3 Submission

CS262 | ZOO MANAGEMENT SYSTEM

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# **ZOO MANAGEMENT SYSTEM**

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### 1. Introduction

In the early days, the manual usage causes many mistakes by the user and administrative. Using manual properties in the fields was not comfortable for the consumers because it was slower than technical usages, caused wastages of the consumers' time and contained many formalities in usage. The goal of this project is to make the activities of the park easier and modernized.

### 2. System Analysis

#### 2.1 Problem Definition

The need for Zoo information management System (ZIMS) is concerned With Zoo information handling and Keeping all the data in a Proper way that can be maintained without any error Data. This project provides a new way to maintain the visitor entries by providing the entry tickets which will be saved in the data base by that any time the admin can view the entries details of the visitor as well as the total amount collected by the entries.

It also keeps the track of animals data's with its unique id in such a way that the data's of the animals are loaded into the database. The unique id also is used to display the loaded data.

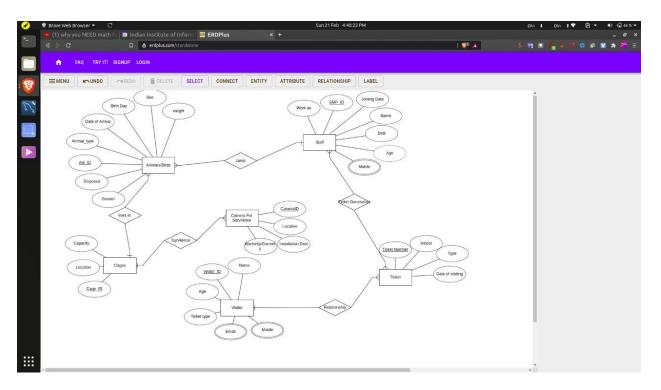
### 2.2 Proposed System

The zoo can tackle the problem by upgrading to Computerized Systems. The system should be able to generate tickets based on the request of the user and must save the data back to the database on successfully generating of tickets. And Easy to keeping all the Animals data in a Proper way that can be maintained without any error Data.

The data will be provided in simple to understand graphical and chart form.

# 3. System Design

- 3.1 Activity Form
- 3.2 ER diagram



- 3.3 Table Design
- 3.4 GUI Diagram

# **4.Project Description**

The Following are the main functional modules of this project

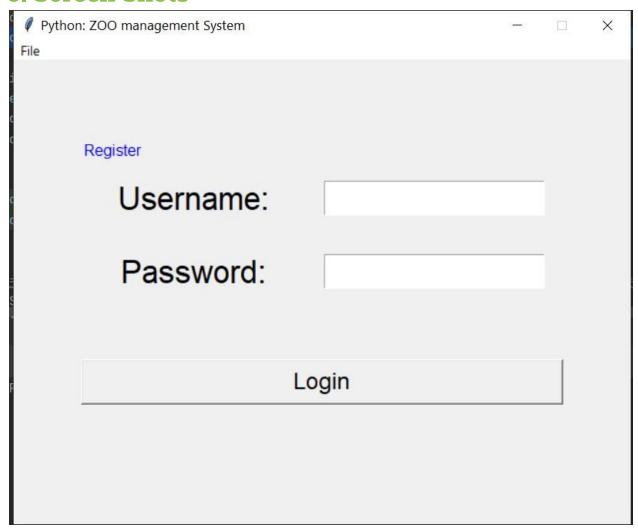
- → Animals data entry
- → Animals data update
- → Animals data chart
- → Entrance ticket
- → Ticket data
- → Day to day ticketing information

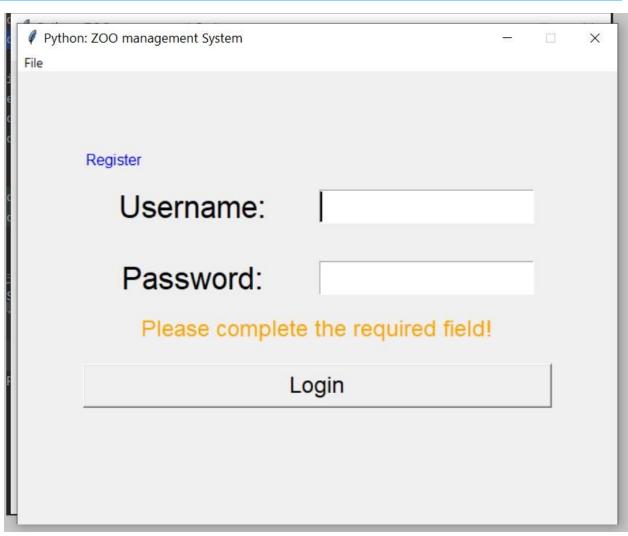
To start off with the user entry will be authenticated by getting the user name and password the admin home user menus open when the admin officer open with admin id and password and the admin menu don't open when the users open with user id and password.

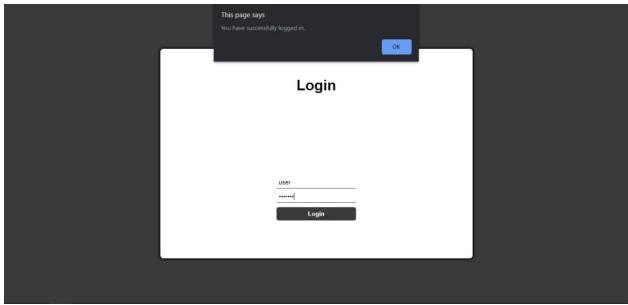
Facility to create the user account is not visible on the front page of starting because the user account doesn't have to create the new user. Admin only has to create the new user account.

- 1. Animal Data Entry: This module is to maintain basic details of all types of animals that is being in the whole zoo such as
  - a. Name of the species
  - b. Unique id of the animal
  - c. Date of the arrival
  - d. Number of Male, Female, and Unsex

### 5. Screen Shots

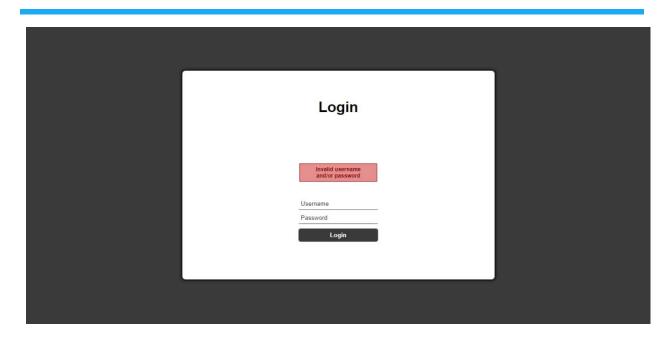






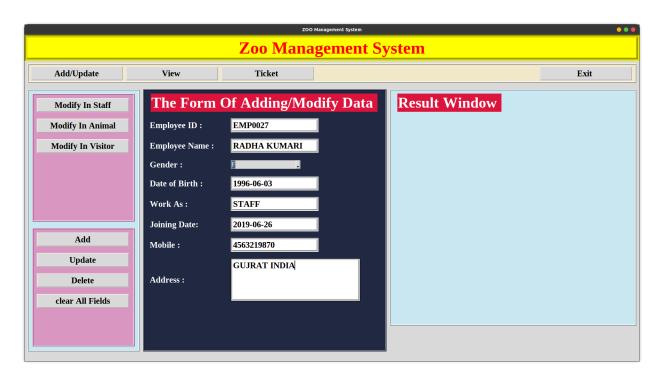
ZOO Management ticket form		
From:		
To:		
Name:		
Age:		
Address:		
Payment options:	O Credit Card O Debit card O wallet	
submit	Cancel	





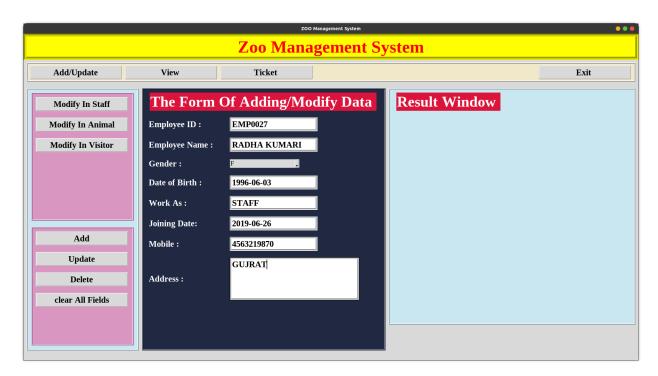
ScreenShot OF FORM (Staff)

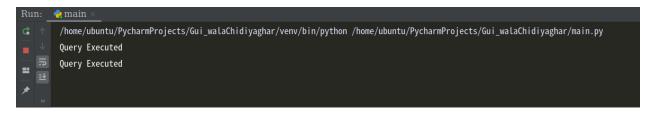
#### 1. ADDING A NEW STAFF



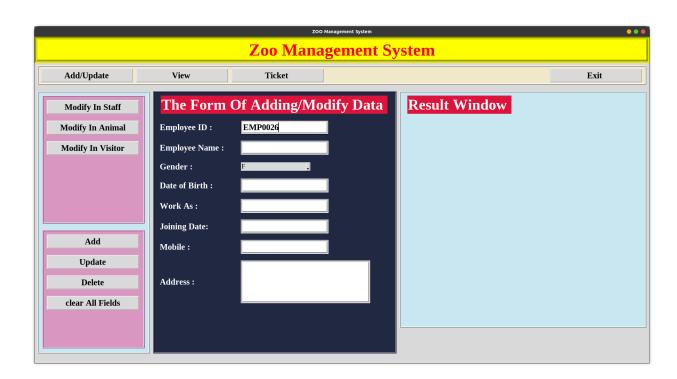


#### Update a STAFF

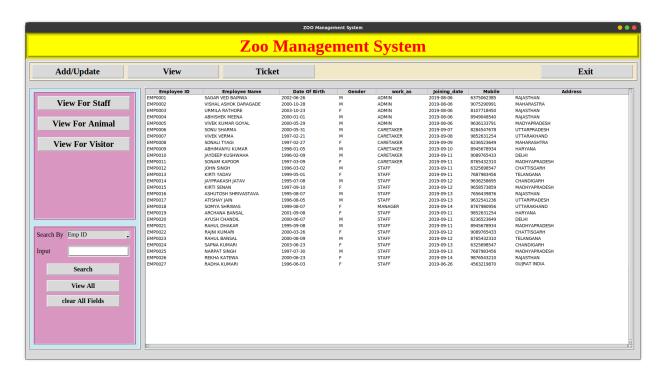


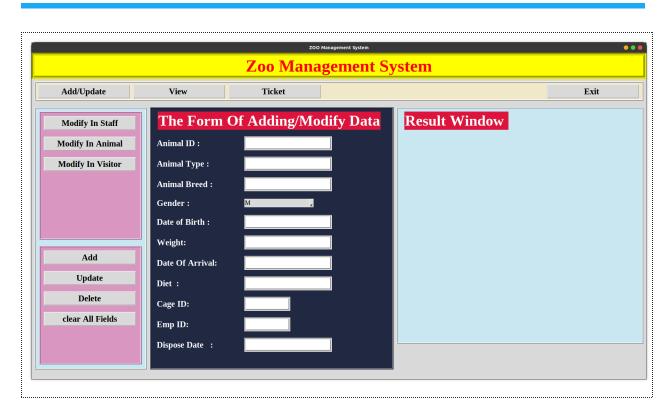


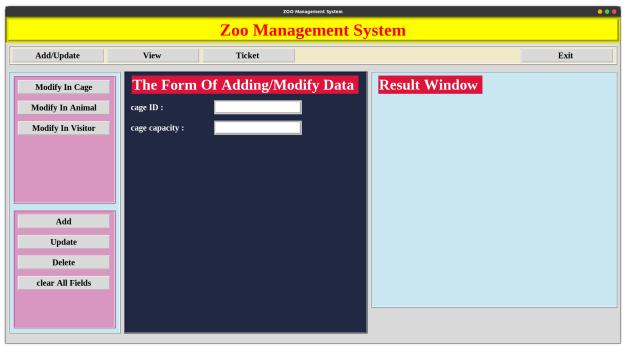
**DELETE A STAFF** 

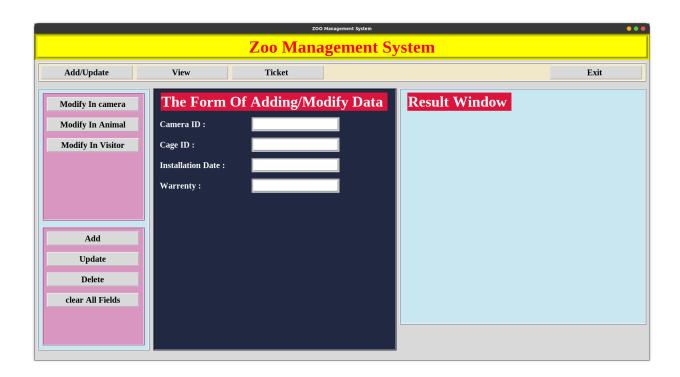


#### VIEW STAFF DATA









### **6.MySql Queries**

```
visitor_ID CHAR(7) PRIMARY KEY,
  visitor_name VARCHAR(30),
  age TINYINT,
  country VARCHAR(15),
  ticket_type VARCHAR(10),
  mobile VARCHAR(10),
  email VARCHAR(20)
);
-- CREATE ticket AND add foreign key
CREATE TABLE ticket(
      ticket_ID INTEGER PRIMARY KEY AUTO_INCREMENT,
  Emp_ID CHAR(7),
  visitor_ID CHAR(7),
  date_of_visiting DATE,
  amount NUMERIC(5, 2)
);
ALTER TABLE ticket ADD FOREIGN KEY (Emp_ID) REFERENCES staff(Emp_ID) ON
DELETE SET NULL;
ALTER TABLE ticket ADD FOREIGN KEY (visitor_ID) REFERENCES visitor(visitor_ID) ON
DELETE SET NULL;
-- CREATE cage
CREATE TABLE cage(
      cage_ID CHAR(7) PRIMARY KEY,
      capacity TINYINT
);
-- CREATE animal AND add foreign key
CREATE TABLE animal(
      animal_ID CHAR(7) PRIMARY KEY,
  animal_type VARCHAR(15),
  breed VARCHAR(20),
  date_of_arrival DATE,
  gender CHAR(1),
  diet VARCHAR(15),
  weight DECIMAL(3, 2),
  birth_date DATE,
  disposed DATE,
```

```
Emp_ID CHAR(7),
    cage_ID CHAR(7)
);

ALTER TABLE animal ADD FOREIGN KEY (Emp_ID) REFERENCES staff(Emp_ID) ON
DELETE SET NULL;
ALTER TABLE animal ADD FOREIGN KEY (cage_ID) REFERENCES cage(cage_ID) ON
DELETE SET NULL;

- CREATE camera_for_survilence AND add foreign key

CREATE TABLE camera_for_survilence(
    camera_ID CHAR(5) PRIMARY KEY,
    cage_ID CHAR(7),
    installation_date DATE,
    warranty DATE
);

ALTER TABLE camera_for_survilence ADD FOREIGN KEY (cage_ID) REFERENCES
cage(cage_ID) ON DELETE SET NULL;
```

### 7. Codes

#### Main.py

```
from ZooStaff import Staff
from Animalclass import Animal
from cage import CageClass
from camera import cameraClass
from viewdetails import view
```

```
from Ticket_Generation import Ticket
from tkinter import *

root = Tk()
#obj = view(root)
#obj = Staff(root)
#obj = Ticket(root)
#obj2 = Animal(root)
#obj3 = CageClass(root)
obj4 = cameraClass(root)
root.mainloop()
```

#### Staff.py

```
self.Emp ID var = StringVar()
       self.emp name var = StringVar()
       self.dob var = StringVar()
       self.gender var = StringVar()
       self.work as var =StringVar()
       self.joining_date var =StringVar()
       self.mobile var =StringVar()
#============MANAGF.
FRAMES
_____
       Manage Frame =
Frame (self.root, bd=4, relief=RIDGE, bg="#f0e8c9")
Manage Frame.place (x=10, y=90, width=1900, height=60)
       AddUpdateBtn =
Button(Manage Frame, text="Add/Update", font =
("times new roman", 20, "bold"),
width=20).grid(row=0,column=0,padx=5,pady=5)
       VieweBtn = Button(Manage Frame, text="View
", font=("times new roman", 20,
"bold"), width=20).grid(row=0, column=1, padx=5,
pady=5)
       TicketBtn = Button (Manage Frame,
text="Ticket ", font=("times new roman", 20,
"bold"), width=20).grid(row=0, column=2, padx=5,
pady=5)
       ExitBtn = Button(Manage Frame, text="Exit
", command=exit, font=("times new roman", 20,
"bold"), width=20).grid(row=0, column=3, padx=700,
pady=5)
```

```
Menu Frame =
Frame (self.root, bd=4, relief=RIDGE, bg="#c9e7f0")
      Menu Frame.place (x=10, y=170, width=380-30,
height=820)
      #+++++++++Frame 1
Btn Frame = Frame (Menu Frame, bd=4,
relief=RIDGE, bq="#d996c1")
      Btn Frame.place(x=10, y=10, width=320,
height=400)
      ModifyStaffBtn = Button(Btn Frame,
text="Modify In Staff", font=("times new roman",
20, "bold"), width=20).grid(row=0, column=0,
padx=10, pady=10)
      ModifyAnimalBtn = Button(Btn Frame,
text="Modify In Animal", font=("times new roman",
20, "bold"), width=20).grid(row=1,
column=0, padx=10, pady=10)
      ModifyVisitorBtn = Button(Btn Frame,
text="Modify In Visitor", font=("times new roman",
20, "bold"), width=20).grid(row=2, column=0,
padx=10, pady=10)
      Btn Frame2 = Frame (Menu Frame, bd=4,
relief=RIDGE, bg="#d996c1")
      Btn Frame2.place(x=10, y=430, width=320,
height=370)
      AddBtn = Button(Btn Frame2,
text="Add", command =self.addStaff, font=("times
```

```
new roman", 20, "bold"), width=20).grid(
          row=0, column=0, padx=10, pady=10)
      UpdateBtn = Button(Btn Frame2,
text="Update", command =self.updatestaff,
font=("times new roman", 20, "bold"),
width=20).grid(row=1, column=0, padx=10, pady=10)
      DeleteBtn = Button(Btn Frame2,
text="Delete", command = self.delete staff,
font=("times new roman", 20, "bold"),
width=20).grid(row=2, column=0, padx=10, pady=10)
      ClearBtn = Button(Btn Frame2, text="clear")
All Fields", command=self.clear, font=("times new
roman", 20, "bold"),
                        width=20).grid(row=3,
column=0, padx=10, pady=10)
______
      Form Frame = Frame (self.root, bd=4,
relief=RIDGE, bg="#202842")
      Form Frame.place (x=400-30, y=170,
width=380*2, height=820)
      mtitle = Label(Form Frame, text="The Form Of
Adding/Modify Data
",bq="crimson",fg="white",font=("times new roman",
35, "bold") )
      mtitle.grid(row=0, columnspan=4, pady=10,
padx=20, sticky="w")
```

```
#>>>>>>Employee ID
lbl EmpID = Label(Form Frame,
text="Employee ID : ", bq="#202842",
fg="white", font=("times new roman", 20, "bold"))
      lbl EmpID.grid(row=1, column=0, pady=10,
padx=10+5, sticky="w")
      txt EmpID =
Entry(Form Frame, textvariable=self.Emp ID var,
font=("times new roman", 20,
"bold"),bd=5,relief=GROOVE)
      txt EmpID.grid(row=1, column=1, pady=10,
padx=5, sticky="w")
      #>>>>>Emp Name
lbl EmpName = Label(Form Frame,
text="Employee Name : ", bg="#202842", fg="white",
                     font=("times new roman",
20, "bold"))
      lbl EmpName.grid(row=2, column=0, pady=10,
padx=10 + 5, sticky="w")
      txt EmpName = Entry(Form Frame, textvariable
= self.emp name var, font=("times new roman", 20,
"bold"), bd=5, relief=GROOVE)
      txt EmpName.grid(row=2, column=1, pady=10,
padx=5, sticky="w")
      # >>>>>> FOR
lbl Empgender = Label(Form Frame,
text="Gender: ", bq="#202842", fq="white",
                         font=("times new
roman", 20, "bold"))
      lbl Empgender.grid(row=3, column=0,
pady=10, padx=10 + 5, sticky="w")
```

```
Empgender =
ttk.Combobox(Form Frame, textvariable=self.gender v
ar, font=("times new roman", 15), state
='readonly')
      Empgender['values'] = ('M', 'F', 'O')
      Empgender.current(0)
      Empgender.grid(row=3, column=1, pady=10,
padx= 5, sticky="w")
      #>>>>>DATE OF BIRTH
>>>>>>>>>>>>
      lbl Empdob = Label(Form Frame, text="Date
of Birth : ", bq="#202842", fq="white",
                        font=("times new roman",
20, "bold"))
      lbl Empdob.grid(row=4, column=0, pady=10,
padx=15, sticky="w")
      txt Empdob = Entry(Form Frame, textvariable
= self.dob var, font=("times new roman", 20,
"bold"), bd=5, relief=GROOVE)
      txt Empdob.grid(row=4, column=1, pady=10,
padx=5, sticky="w")
      #>>>>>>>MORK AS
lbl WorkAs = Label(Form Frame, text="Work As
: ", bg="#202842", fg="white", font=("times new
roman", 20, "bold"))
      lbl WorkAs.grid(row=7, column=0, pady=10,
padx=10 + 5, sticky="w")
      txt WorkAs =
Entry (Form Frame, textvariable=self.work as var,
```

```
font=("times new roman", 20, "bold"), bd=5,
relief=GROOVE)
      txt WorkAs.grid(row=7, column=1, pady=10,
padx=5, sticky="w")
      #>>>>>>\JOTNTNG
lbl Join = Label(Form Frame, text="Joining")
Date: ", bg="#202842", fg="white",
                       font=("times new roman",
20, "bold"))
      lbl Join.grid(row=8, column=0, pady=10,
padx=10 + 5, sticky="w")
      txt Join =
Entry (Form Frame, textvariable=self.joining date va
r, font=("times new roman", 20, "bold"), bd=5,
relief=GROOVE)
     txt Join.grid(row=8, column=1, pady=10,
padx=5, sticky="w")
      #>>>>>>MOBITIE
lbl Mobile = Label(Form Frame, text="Mobile")
: ", bq="#202842", fq="white",
                       font=("times new roman",
20, "bold"))
      lbl Mobile.grid(row=9, column=0, pady=10,
padx=10 + 5, sticky="w")
      txt Mobile =
Entry (Form Frame, textvariable=self.mobile var,
font=("times new roman", 20, "bold"), bd=5,
relief=GROOVE)
```

```
txt Mobile.grid(row=9, column=1, pady=10,
padx=5, sticky="w")
#>>>>>>ADDRESS
lbl Address = Label(Form Frame,
text="Address: ", bq="#202842", fq="white",
                       font=("times new roman",
20, "bold"))
      lbl Address.grid(row=10, column=0, pady=10,
padx=10 + 5, sticky="w")
      self.txt Address=Text(Form Frame, width
=30, height = 4, font=("times new roman", 20,
"bold"), bd=5, relief=GROOVE)
      self.txt Address.grid(row=10, column=1,
pady=10, padx=5, sticky="w")
 FRAMES
      Result Frame = Frame (self.root, bd=4,
relief=RIDGE, bq="#c9e7f0")
      Result Frame.place (x=400+380*2+10-30,
y=170, width=360+380+30, height=820-80)
      Rtitle = Label (Result Frame, text="Result
Window ", bg="crimson", fg="white", font=("times
new roman", 35, "bold"))
      Rtitle.grid(row=0, columnspan=4, pady=10,
padx=20, sticky="w")
```

```
#Functions
   #----Function to Add
in Staff -----
   def addStaff(self):
      con = pymysql.connect(user='root',
password='Password@21',
                           host='localhost',
database='ZOOMANAGEMENT')
      cur = con.cursor()
      query= "insert into staff(Emp ID,
emp name, dob, gender, work as,
joining date,mobile,Address) values('{}', '{}',
'{}','{}','{}','{}',
'{}','{}')".format(self.Emp ID var.get(),
self.emp name var.get(),
self.dob var.get(),
self.gender var.get(),
self.work as var.get(),
self.joining date var.get(),
self.mobile var.get(),
self.txt Address.get('1.0',END))
      print("Query Executed")
      cur.execute (query)
      con.commit()
      con.close()
    #----Function to Update in
```

```
def updatestaff(self):
       con = pymysql.connect(user='root',
password='Password@21',
                            host='localhost',
database='ZOOMANAGEMENT')
       cur = con.cursor()
       query = "update staff set emp name = '{}',
dob = '{}', gender = '{}', work as =
'{}',joining_date = '{}', mobile = '{}' where
Emp ID = '{}'".format(
          self.emp name var.get(),
self.dob var.get(), self.gender var.get(),
           self.work as var.get(),
self.joining date var.get(),
self.mobile var.get(), self.Emp ID var.get())
       print("Query Executed")
       cur.execute(query)
       con.commit()
       con.close()
   #Delete Staff
   def delete staff(self):
       con = pymysql.connect(user='root',
password='Password@21', host='localhost',
database='ZOOMANAGEMENT')
       cur = con.cursor()
       query = "delete from staff where Emp ID =
'{}'".format(self.Emp [ID_var.get())
       con.commit()
       con.close()
   #----Function To Clear All
Field -----
   def clear(self):
      self.Emp ID var.set(" ")
      self.emp name var.set(" ")
```

#### Animalclass.py

```
self.animal type var = StringVar()
       self.animal breed var = StringVar()
       self.ani dob var = StringVar()
       self.animal_dateofarrival var = StringVar()
       self.gender var = StringVar()
       self.diet var =StringVar()
       self.weight var =StringVar()
       self.disposedate var =StringVar()
       self.cageID = StringVar()
       self.Emp ID = StringVar()
FRAMES
       Manage Frame =
Frame (self.root,bd=4,relief=RIDGE,bg="#f0e8c9")
Manage Frame.place (x=10, y=90, width=1900, height=60)
       AddUpdateBtn =
Button (Manage Frame, text="Add/Update", command=self
.addanimal, font = ("times new roman", 20, "bold"),
width=20).grid(row=0,column=0,padx=5,pady=5)
       VieweBtn = Button(Manage Frame, text="View
", font=("times new roman", 20,
"bold"), width=20).grid(row=0, column=1, padx=5,
pady=5)
       TicketBtn = Button (Manage Frame,
text="Ticket ", font=("times new roman", 20,
"bold"), width=20).grid(row=0, column=2, padx=5,
pady=5)
       ExitBtn = Button(Manage Frame, text="Exit
", command=exit, font=("times new roman", 20,
"bold"), width=20).grid(row=0, column=3, padx=700,
```

```
pady=5)
_____
      Menu Frame =
Frame (self.root,bd=4,relief=RIDGE,bg="#c9e7f0")
     Menu Frame.place (x=10, y=170, width=380-30,
height=820)
      Btn Frame = Frame (Menu Frame, bd=4,
relief=RIDGE, bq="#d996c1")
      Btn Frame.place(x=10, y=10, width=320,
height=400)
     ModifyStaffBtn = Button(Btn Frame,
text="Modify In Staff", font=("times new roman",
20, "bold"), width=20).grid(row=0, column=0,
padx=10, pady=10)
     ModifyAnimalBtn = Button(Btn Frame,
text="Modify In Animal", font=("times new roman",
20, "bold"), width=20).grid(row=1,
column=0, padx=10, pady=10)
      ModifyVisitorBtn = Button(Btn Frame,
text="Modify In Visitor", font=("times new roman",
20, "bold"), width=20).grid(row=2, column=0,
padx=10, pady=10)
      Btn Frame2 = Frame (Menu Frame, bd=4,
relief=RIDGE, bq="#d996c1")
      Btn Frame2.place(x=10, y=430, width=320,
height=370)
```

```
AddBtn = Button(Btn Frame2,
text="Add", command =self.addanimal, font=("times
new roman", 20, "bold"), width=20).grid(
           row=0, column=0, padx=10, pady=10)
       UpdateBtn = Button(Btn Frame2,
text="Update", command = self.updateanimal,
font=("times new roman", 20, "bold"),
width=20).grid(row=1, column=0, padx=10, pady=10)
       DeleteBtn = Button (Btn Frame2,
text="Delete", command = self.delete animal,
font=("times new roman", 20, "bold"),
width=20).grid(row=2, column=0, padx=10, pady=10)
       ClearBtn = Button(Btn Frame2, text="clear
All Fields", command=self.clear, font=("times new
roman", 20, "bold"),
                           width=20).grid(row=3,
column=0, padx=10, pady=10)
       Form Frame = Frame(self.root, bd=4,
relief=RIDGE, bq="#202842")
       Form Frame.place (x=400-30, y=170,
width=380*2, height=820)
       mtitle = Label(Form Frame, text="The Form Of
Adding/Modify
Data", bg="crimson", fg="white", font=("times new
roman", 35, "bold") )
       mtitle.grid(row=0, columnspan=4, pady=10,
padx=20, sticky="w")
```

```
#>>>>>>Animal ID
lbl AniID = Label(Form Frame, text="Animal
ID : ", bq="#202842", fq="white", font=("times new
roman", 20, "bold"))
      lbl AniID.grid(row=1, column=0, pady=10,
padx=10+5, sticky="w")
     txt AniID =
Entry (Form Frame, textvariable=self.animal ID var,
font=("times new roman", 20,
"bold"),bd=5,relief=GROOVE)
     txt AniID.grid(row=1, column=1, pady=10,
padx=5, sticky="w")
      #>>>>>Animal
lbl AniType = Label(Form Frame,
text="Animal Type : ", bq="#202842", fq="white",
                     font=("times new roman",
20, "bold"))
      lbl AniType.grid(row=2, column=0, pady=10,
padx=10 + 5, sticky="w")
      txt AniType = Entry(Form Frame, textvariable
= self.animal type var, font=("times new roman",
20, "bold"), bd=5, relief=GROOVE)
     txt AniType.grid(row=2, column=1, pady=10,
padx=5, sticky="w")
>>>>>.
      lbl Animal breed = Label(Form Frame,
```

```
text="Animal Breed: ", bg="#202842", fg="white",
                         font=("times new
roman", 20, "bold"))
      lbl Animal breed.grid(row=3, column=0,
pady=10, padx=10 + 5, sticky="w")
      txt Animal breed = Entry (Form Frame,
textvariable=self.animal breed var, font=("times
new roman", 20, "bold"), bd=5,
                         relief=GROOVE)
      txt Animal breed.grid(row=3, column=1,
pady=10, padx=5, sticky="w")
      # >>>>>> FOR
lbl Anigender = Label(Form Frame,
text="Gender: ", bq="#202842", fq="white",
                           font=("times new
roman", 20, "bold"))
      lbl Anigender.grid(row=4, column=0,
pady=10, padx=10 + 5, sticky="w")
      Anigender =
ttk.Combobox(Form Frame, textvariable=self.gender v
ar, font=("times new roman", 15), state
='readonly')
      Anigender['values'] = ('M', 'F')
      Anigender.current(0)
      Anigender.grid(row=4, column=1, pady=10,
padx= 5, sticky="w")
      #>>>>>DATE OF BIRTH
lbl Anidob = Label(Form Frame, text="Date
of Birth : ", bq="#202842", fq="white",
                        font=("times new roman",
```

```
20, "bold"))
      lbl Anidob.grid(row=5, column=0, pady=10,
padx=15, sticky="w")
      txt Anidob = Entry(Form Frame, textvariable
= self.ani dob var, font=("times new roman", 20,
"bold"), bd=5, relief=GROOVE)
      txt Anidob.grid(row=5, column=1, pady=10,
padx=5, sticky="w")
      #>>>>>>Weight
lbl Weight = Label(Form Frame, text="Weight:
", bq="#202842", fq="white", font=("times new
roman", 20, "bold"))
      lbl Weight.grid(row=7, column=0, pady=10,
padx=10 + 5, sticky="w")
      txt Weight =
Entry (Form Frame, textvariable=self.weight var,
font=("times new roman", 20, "bold"), bd=5,
relief=GROOVE)
      txt Weight.grid(row=7, column=1, pady=10,
padx=5, sticky="w")
      lbl Join = Label(Form Frame, text="Date Of
Arrival: ", bg="#202842", fg="white",
                       font=("times new roman",
20, "bold"))
      lbl Join.grid(row=8, column=0, pady=10,
padx=10 + 5, sticky="w")
      txt Join =
```

```
Entry(Form Frame, textvariable=self.animal dateofar
rival var, font=("times new roman", 20, "bold"),
bd=5, relief=GROOVE)
      txt Join.grid(row=8, column=1, pady=10,
padx=5, sticky="w")
#>>>>>Diet>>>>>>>>
lbl Diet = Label(Form Frame, text="Diet :
", bq="#202842", fq="white",
                       font=("times new roman",
20, "bold"))
      lbl Diet.grid(row=9, column=0, pady=10,
padx=10 + 5, sticky="w")
      txt Diet =
Entry(Form Frame, textvariable=self.diet var,
font=("times new roman", 20, "bold"), bd=5,
relief=GROOVE)
      txt Diet.grid(row=9, column=1, pady=10,
padx=5, sticky="w")
      # >>>>>Dispose
lbl Dispose Date = Label(Form Frame,
text="Dispose Date : ", bq="#202842",
fg="white",
                       font=("times new roman",
20, "bold"))
      lbl Dispose Date.grid(row=12, column=0,
pady=10, padx=10 + 5, sticky="w")
      txt Dispose Date = Entry(Form Frame,
textvariable=self.disposedate var, font=("times
```

```
new roman", 20, "bold"), bd=5,
                       relief=GROOVE)
      txt Dispose Date.grid(row=12, column=1,
pady=10, padx=5, sticky="w")
      # >>>>>>Cage
lbl CageID = Label(Form Frame, text="Cage")
ID: ", bq="#202842", fq="white",
                        font=("times new
roman", 20, "bold"))
      lbl CageID.grid(row=10, column=0, pady=10,
padx=10 + 5, sticky="w")
      txt CageID = Entry(Form Frame, textvariable
= self.cageID, width=10, font=("times new roman",
20, "bold"), bd=5,
                            relief=GROOVE)
      txt CageID.grid(row=10, column=1, pady=10,
padx=5, sticky="w")
      #>>>>>Emp ID
lbl EmpID = Label(Form Frame, text="Emp ID:
", bg="#202842", fg="white",
                       font=("times new roman",
20, "bold"))
      lbl EmpID.grid(row=11, column=0, pady=10,
padx=10 + 5, sticky="w")
      txt EmpID =
Entry(Form Frame, textvariable=self.Emp ID,
width=10, font=("times new roman", 20, "bold"),
bd=5.
                            relief=GROOVE)
      txt EmpID.grid(row=11, column=1, pady=10,
```

```
padx=5, sticky="w")
FRAMES
_____
      Result Frame = Frame(self.root, bd=4,
relief=RIDGE, bq="#c9e7f0")
      Result Frame.place (x=400+380*2+10-30,
y=170, width=360+380+30, height=820-80)
      Rtitle = Label (Result Frame, text="Result
Window ", bg="crimson", fg="white", font=("times
new roman", 35, "bold"))
      Rtitle.grid(row=0, columnspan=4, pady=10,
padx=20, sticky="w")
#Functions
             -----Function to Add
in Animal -----
   def addanimal(self):
      con = pymysql.connect(user='root',
password='Password@21',
                         host='localhost',
database='ZOOMANAGEMENT')
      cur = con.cursor()
      query= "insert into
animal (animal ID, animal type, breed, date of arrival
,gender,diet,weight,birth date,disposed,Emp ID,cag
e ID)
','{}','{}')".format(self.animal ID var.get(), self
```

```
.animal type var.get(), self.animal breed var.get()
,self.animal dateofarrival var.get(),self.gender v
ar.get(), self.diet var.get(), self.weight var.get()
, self.ani dob var.get(), self.disposedate var.get()
, self.Emp ID.get(), self.cageID.get())
       print("Query Executed")
       cur.execute(query)
       con.commit()
       con.close()
         -----Function to Update in
    def updateanimal(self):
        con = pymysql.connect(user='root',
password='Password@21',
                             host='localhost',
database='ZOOMANAGEMENT')
        cur = con.cursor()
        query = "update animal set animal ID =
'{}', animal type = '{}', breed = '{}',
date of arrival = '{}',gender = '{}',diet = '{}',
weight = '{}', birth date = '{}', disposed = '{}',
Emp ID = '{}', cage ID = '{}' where animal ID =
'{}'".format(
self.animal ID.get(), self.animal type var.get(),
self.animal breed var.get(),
self.ani dob var.get(), self.gender var.get(),
self.animal dateofarrival var.get(),
self.diet var.get(),
self.weight var.get(), self.disposedate var.get(), s
elf.cageID.get(), self.Emp ID.get())
```

```
print("Query Executed")
       cur.execute(query)
       con.commit()
       con.close()
   #Delete animal
   def delete animal(self):
       con = pymysql.connect(user='root',
password='Password@21', host='localhost',
database='ZOOMANAGEMENT')
       cur = con.cursor()
       query = "delete from animal where
animal ID =
'{}'".format(self.animal breed_var.get())
       con.commit()
       con.close()
   #----Function To Clear All
Field -----
   def clear(self):
       self.animal ID var.set("")
       self.animal type var.set("")
       self.animal breed var.set("")
       self.ani dob var.set("")
       self.animal dateofarrival var.set("")
       self.gender var.set("")
       self.diet var.set("")
       self.weight var.set("")
       self.disposedate var.set("")
       self.cageID.set("")
       self.Emp ID.set("")
               -----Function To Exit
```

```
The Program -----
    def exit(self):
        exit()
```

## Camera.py

```
from tkinter import *
from tkinter import ttk
import pymysql
class cameraClass:
    def init (self, root):
       self.root = root #main window for GUI
       self.root.title("ZOO Management System")
       self.root.geometry("1600x1024+0+0")
       title = Label(self.root,text = "Zoo
Management System", bd=10, relief = GROOVE, font =
("times new roman", 40, "bold"), bq="yellow", fq="red"
       title.pack(side=TOP, fill = X)
                                  ----VARIABLES
       self.camera ID var = StringVar()
       self.cage ID var = StringVar()
       self.Installation date var = StringVar()
       self.warranty var = StringVar()
```

```
#==============MANAGE
FRAMES
      Manage Frame =
Frame (self.root, bd=4, relief=RIDGE, bg="#f0e8c9")
Manage Frame.place (x=10, y=90, width=1900, height=60)
      AddUpdateBtn =
Button (Manage Frame, text="Add/Update", font =
("times new roman", 20, "bold"),
width=20).grid(row=0,column=0,padx=5,pady=5)
      VieweBtn = Button(Manage Frame, text="View
", font=("times new roman", 20,
"bold"), width=20).grid(row=0, column=1, padx=5,
pady=5)
      TicketBtn = Button (Manage Frame,
text="Ticket ", font=("times new roman", 20,
"bold"), width=20).grid(row=0, column=2, padx=5,
pady=5)
      ExitBtn = Button(Manage Frame, text="Exit
", command=exit, font=("times new roman", 20,
"bold"), width=20).grid(row=0, column=3, padx=700,
pady=5)
 Menu Frame =
Frame (self.root, bd=4, relief=RIDGE, bq="#c9e7f0")
      Menu Frame.place (x=10, y=170, width=380-30,
height=820)
```

```
Btn Frame = Frame (Menu Frame, bd=4,
relief=RIDGE, bq="#d996c1")
      Btn Frame.place(x=10, y=10, width=320,
height=400)
      ModifycameraBtn = Button(Btn Frame,
text="Modify In camera", font=("times new roman",
20, "bold"), width=20).grid(row=0, column=0,
padx=10, pady=10)
      ModifyAnimalBtn = Button (Btn Frame,
text="Modify In Animal", font=("times new roman",
20, "bold"), width=20).grid(row=1,
column=0, padx=10, pady=10)
      ModifyVisitorBtn = Button(Btn Frame,
text="Modify In Visitor", font=("times new roman",
20, "bold"), width=20).grid(row=2, column=0,
padx=10, pady=10)
      Btn Frame2 = Frame (Menu Frame, bd=4,
relief=RIDGE, bq="#d996c1")
      Btn Frame2.place(x=10, y=430, width=320,
height=370)
      AddBtn = Button(Btn Frame2,
text="Add", command =self.addcamera, font=("times
new roman", 20, "bold"), width=20).grid(
         row=0, column=0, padx=10, pady=10)
      UpdateBtn = Button(Btn Frame2,
text="Update", command =self.updatecamera,
font=("times new roman", 20, "bold"),
width=20).grid(row=1, column=0, padx=10, pady=10)
      DeleteBtn = Button(Btn Frame2,
text="Delete", command = self.delete camera,
```

```
font=("times new roman", 20, "bold"),
width=20).grid(row=2, column=0, padx=10, pady=10)
      ClearBtn = Button(Btn Frame2, text="clear
All Fields", command=self.clear, font=("times new
roman", 20, "bold"),
                       width=20).grid(row=3,
column=0, padx=10, pady=10)
 _____
      Form Frame = Frame (self.root, bd=4,
relief=RIDGE, bq="#202842")
      Form Frame.place(x=400-30, y=170,
width=380*2, height=820)
      mtitle = Label(Form Frame, text="The Form Of
Adding/Modify Data
", bq="crimson", fq="white", font=("times new roman",
35, "bold") )
      mtitle.grid(row=0, columnspan=4, pady=10,
padx=20, sticky="w")
#>>>>>>camera ID
lbl camera = Label (Form Frame, text="Camera
ID : ", bq="#202842", fq="white", font=("times new
roman", 20, "bold"))
      lbl camera.grid(row=1, column=0, pady=10,
padx=10+5, sticky="w")
      txt camera =
```

```
Entry(Form Frame, textvariable=self.camera ID var,
font=("times new roman", 20,
"bold"),bd=5,relief=GROOVE)
      txt camera.grid(row=1, column=1, pady=10,
padx=5, sticky="w")
      #>>>>>>cage ID
lbl cageID = Label(Form Frame, text="Cage
ID : ", bq="#202842", fq="white",
                       font=("times new roman",
20, "bold"))
      lbl cageID.grid(row=2, column=0, pady=10,
padx=10 + 5, sticky="w")
      txt cageID = Entry(Form Frame, textvariable
= self.cage ID var, font=("times new roman", 20,
"bold"), bd=5, relief=GROOVE)
      txt cageID.grid(row=2, column=1, pady=10,
padx=5, sticky="w")
      # >>>>>> FOR
lbl Installation date = Label(Form Frame,
text="Installation Date : ", bq="#202842",
fg="white",
font=("times new roman", 20, "bold"))
      lbl Installation date.grid(row=3, column=0,
pady=10, padx=15, sticky="w")
      txt Installation date = Entry (Form Frame,
textvariable=self.Installation date var,
font=("times new roman", 20, "bold"), bd=5,
relief=GROOVE)
      txt Installation date.grid(row=3, column=1,
pady=10, padx=5, sticky="w")
```

```
#>>>>>DATE OF BIRTH
lbl Warrenty date = Label(Form Frame,
text="Warrenty : ", bg="#202842", fg="white",
                        font=("times new roman",
20, "bold"))
      lbl Warrenty date.grid(row=4, column=0,
pady=10, padx=15, sticky="w")
      txt Warrenty date =
Entry(Form Frame, textvariable =
self.Installation date var, font=("times new
roman", 20, "bold"), bd=5, relief=GROOVE)
      txt Warrenty date.grid(row=4, column=1,
pady=10, padx=5, sticky="w")
  FRAMES
      Result Frame = Frame(self.root, bd=4,
relief=RIDGE, bq="#c9e7f0")
      Result Frame.place (x=400+380*2+10-30,
y=170, width=360+380+30, height=820-80)
      Rtitle = Label (Result Frame, text="Result
Window ", bg="crimson", fg="white", font=("times
new roman", 35, "bold"))
      Rtitle.grid(row=0, columnspan=4, pady=10,
padx=20, sticky="w")
```

```
#Functions
               -----Function to Add
in camera ------
   def addcamera(self):
      con = pymysql.connect(user='root',
password='Password@21',
                           host='localhost',
database='ZOOMANAGEMENT')
      cur = con.cursor()
      query= "insert into camera (camera ID,
cage ID, Installation date, warranty) values('{}',
'{}', '{}')".format(self.camera ID var.get(),
self.cage ID var.get(),
self.Installation date var.get(),
self.warranty var.get(),
      print("Query Executed")
      cur.execute(query)
      con.commit()
      con.close()
   #----Function to Update in
   def updatecamera(self):
       con = pymysql.connect(user='root',
password='Password@21',
                           host='localhost',
database='ZOOMANAGEMENT')
       cur = con.cursor()
```

```
query = "update camera set cage ID = '{}',
Installation date = '{}', warranty = '{}' where
camera ID = '{}'".format(
          self.cage ID var.get(),
self.Installation date var.get(),
self.warranty var.get(),
          self.camera ID var.get())
       print("Query Executed")
       cur.execute(query)
       con.commit()
       con.close()
   #Delete camera
   def delete camera(self):
       con = pymysql.connect(user='root',
password='Password@21', host='localhost',
database='ZOOMANAGEMENT')
       cur = con.cursor()
       query = "delete from camera where
camera ID = '{}'".format(self.camera ID var.get())
       con.commit()
       con.close()
   #----Function To Clear All
Field ------
   def clear(self):
      self.camera ID var.set(" ")
      self.cage ID var.set(" ")
      self.Installation date var.set(" ")
      self.warranty var.set(" ")
          -----Function To Exit
The Program -----
   def exit(self):
       exit()
```

## Cage.py

```
from tkinter import *
from tkinter import ttk
import pymysql
class CageClass:
    def init (self, root):
       self.root = root #main window for GUI
       self.root.title("ZOO Management System")
       self.root.geometry("1600x1024+0+0")
       title = Label(self.root, text = "Zoo
Management System", bd=10, relief = GROOVE, font =
("times new roman", 40, "bold"), bq="yellow", fq="red"
       title.pack(side=TOP, fill = X)
      self.Cage ID Var = StringVar()
       self.capacity var = StringVar()
#============MANAGF.
      Manage Frame =
Frame (self.root,bd=4, relief=RIDGE,bg="#f0e8c9")
```

```
Manage Frame.place (x=10, y=90, width=1900, height=60)
      AddUpdateBtn =
Button (Manage Frame, text="Add/Update", font =
("times new roman", 20, "bold"),
width=20).grid(row=0,column=0,padx=5,pady=5)
      VieweBtn = Button(Manage Frame, text="View
", font=("times new roman", 20,
"bold"), width=20).grid(row=0, column=1, padx=5,
pady=5)
      TicketBtn = Button (Manage Frame,
text="Ticket ", font=("times new roman", 20,
"bold"), width=20).grid(row=0, column=2, padx=5,
pady=5)
      ExitBtn = Button(Manage Frame, text="Exit
", command=exit, font=("times new roman", 20,
"bold"), width=20).grid(row=0, column=3, padx=700,
pady=5)
======
      Menu Frame =
Frame (self.root,bd=4,relief=RIDGE,bq="#c9e7f0")
      Menu Frame.place (x=10, y=170, width=380-30,
height=820)
      Btn Frame = Frame (Menu Frame, bd=4,
relief=RIDGE, bq="#d996c1")
      Btn Frame.place(x=10, y=10, width=320,
height=400)
      ModifyCageBtn = Button(Btn Frame,
```

```
text="Modify In Cage", font=("times new roman",
20, "bold"), width=20).grid(row=0, column=0,
padx=10, pady=10)
      ModifyAnimalBtn = Button(Btn Frame,
text="Modify In Animal", font=("times new roman",
20, "bold"), width=20).grid(row=1,
column=0, padx=10, pady=10)
      ModifyVisitorBtn = Button(Btn Frame,
text="Modify In Visitor", font=("times new roman",
20, "bold"), width=20).grid(row=2, column=0,
padx=10, pady=10)
       Btn Frame2 = Frame (Menu Frame, bd=4,
relief=RIDGE, bq="#d996c1")
      Btn Frame2.place(x=10, y=430, width=320,
height=370)
      AddBtn = Button(Btn Frame2,
text="Add", command =self.addCage, font=("times new
roman", 20, "bold"), width=20).grid(
          row=0, column=0, padx=10, pady=10)
      UpdateBtn = Button(Btn Frame2,
text="Update", command = self.updateCage,
font=("times new roman", 20, "bold"),
width=20).grid(row=1, column=0, padx=10, pady=10)
       DeleteBtn = Button(Btn Frame2,
text="Delete", command = self.delete cage,
font=("times new roman", 20, "bold"),
width=20).grid(row=2, column=0, padx=10, pady=10)
      ClearBtn = Button(Btn Frame2, text="clear
All Fields", command=self.clear, font=("times new
roman", 20, "bold"),
                         width=20).grid(row=3,
column=0, padx=10, pady=10)
```

```
-----
     Form Frame = Frame (self.root, bd=4,
relief=RIDGE, bq="#202842")
     Form Frame.place (x=400-30, y=170,
width=380*2, height=820)
     mtitle = Label(Form Frame, text="The Form Of
Adding/Modify Data
", bq="crimson", fq="white", font=("times new roman",
35, "bold") )
     mtitle.grid(row=0, columnspan=4, pady=10,
padx=20, sticky="w")
#>>>>>>CageID
lbl cageID = Label(Form Frame, text="cage
ID : ", bq="#202842", fq="white", font=("times new
roman", 20, "bold"))
     lbl cageID.grid(row=1, column=0, pady=10,
padx=10+5, sticky="w")
     txt cageID =
Entry (Form Frame, textvariable=self.Cage ID Var,
font=("times new roman", 20,
"bold"),bd=5,relief=GROOVE)
     txt cageID.grid(row=1, column=1, pady=10,
padx=5, sticky="w")
     #>>>>>> Capacity
```

```
lbl capacity = Label(Form Frame, text="cage
capacity : ", bq="#202842", fq="white",
                       font=("times new roman",
20, "bold"))
      lbl capacity.grid(row=2, column=0, pady=10,
padx=10 + 5, sticky="w")
      txt capacity =
Entry(Form Frame, textvariable = self.capacity var,
font=("times new roman", 20, "bold"), bd=5,
relief=GROOVE)
      txt capacity.grid(row=2, column=1, pady=10,
padx=5, sticky="w")
FRAMES
_____
      Result Frame = Frame (self.root, bd=4,
relief=RIDGE, bq="#c9e7f0")
      Result Frame.place (x=400+380*2+10-30,
y=170, width=360+380+30, height=820-80)
      Rtitle = Label(Result Frame, text="Result
Window ", bg="crimson", fg="white", font=("times
new roman", 35, "bold"))
      Rtitle.grid(row=0, columnspan=4, pady=10,
padx=20, sticky="w")
#Functions
```

```
#-----Function to Add
in Cage -----
   def addCage(self):
      con = pymysql.connect(user='root',
password='Password@21',
                           host='localhost',
database='ZOOMANAGEMENT')
      cur = con.cursor()
      query= "insert into Cage (cage ID,
capacity,) values('{}',
'{}')".format(self.Cage ID Var.get(),
self.capacity var.get())
      print("Query Executed")
      cur.execute(query)
      con.commit()
      con.close()
   #----Function to Update in
          -----
   def updateCage(self):
       con = pymysql.connect(user='root',
password='Password@21',
                          host='localhost',
database='ZOOMANAGEMENT')
       cur = con.cursor()
       query = "update Cage set capacity = '{}'
where cage ID =
'{}'".format(self.capacity_var.get(),
self.Cage ID Var.get())
       print("Query Executed")
       cur.execute(query)
       con.commit()
```

```
con.close()
  #Delete Cage
   def delete cage(self):
       con = pymysql.connect(user='root',
password='Password@21', host='localhost',
database='ZOOMANAGEMENT')
       cur = con.cursor()
       query = "delete from Cage where cage ID =
'{}'".format(self.Cage ID Var.get())
       con.commit()
       con.close()
  #----Function To Clear All
Field -----
   def clear(self):
      self.Cage ID Var.set(" ")
      self.capacity var.set(" ")
  # -----Function To Exit
The Program -----
   def exit(self):
       exit()
```

## Viewdetails.py

```
from tkinter import *
from tkinter import ttk
from ZooStaff import Staff
import pymysql

'''Author : SAGAR VED BAIRWA
    Machine: Ubuntu 20.04'''

class view:
```

```
def init (self, root):
       self.root = root # main window for GUI
       self.root.title("ZOO Management System")
       self.root.geometry("1600x1024+0+0")
       title = Label(self.root, text="Zoo
Management System", bd=10, relief=GROOVE,
                    font=("times new roman", 40,
"bold"), bq="yellow", fg="red")
      title.pack(side=TOP, fill=X)
      self.Emp ID var = StringVar()
       self.emp name var = StringVar()
       self.dob var = StringVar()
       self.gender var = StringVar()
       self.work as var = StringVar()
       self.joining date var = StringVar()
       self.mobile var = StringVar()
  FRAMES
      Manage Frame = Frame (self.root, bd=4,
relief=RIDGE, bq="#f0e8c9")
      Manage Frame.place(x=10, y=90, width=1900,
height=60)
      AddUpdateBtn = Button (Manage Frame,
text="Add/Update", font=("times new roman", 20,
"bold"), width=20).grid(
          row=0, column=0, padx=5, pady=5)
      VieweBtn = Button(Manage Frame, text="View
", font=("times new roman", 20, "bold"),
```

```
width=20).grid(row=0,
column=1,
padx=5,
pady=5)
      TicketBtn = Button (Manage Frame,
text="Ticket ", font=("times new roman", 20,
"bold"), width=20).grid(row=0,
column=2,
padx=5,
pady=5)
      ExitBtn = Button(Manage Frame, text="Exit
", command=exit, font=("times new roman", 20,
"bold"), width=20).grid(row=0,
column=3,
padx=700,
pady=5)
   ------MF.NU FRAMF.S
______
=======
      Menu Frame = Frame (self.root, bd=4,
relief=RIDGE, bq="#c9e7f0")
      Menu Frame.place(x=10, y=170, width=380 -
30, height=820)
      Btn Frame = Frame (Menu Frame, bd=4,
relief=RIDGE, bg="#d996c1")
```

```
Btn Frame.place(x=10, y=10, width=320,
height=400)
       View StaffBtn = Button (Btn Frame,
text="View For Staff", font=("times new roman",
20, "bold"), width=20).grid(
           row=0, column=0, padx=10, pady=10)
       View AnimalBtn = Button(Btn Frame,
text="View For Animal", font=("times new roman",
20, "bold"),
width=20).grid(row=1, column=0, padx=10, pady=10)
       View VisitorBtn = Button(Btn Frame,
text="View For Visitor", font=("times new roman",
20, "bold"),
width=20).grid(row=2, column=0, padx=10, pady=10)
       Btn Frame2 = Frame (Menu Frame, bd=4,
relief=RIDGE, bq="#d996c1")
       Btn Frame2.place(x=10, y=430, width=320,
height=370)
       SearchTypelbl =
Label (Btn Frame2, text="Search
By", bq="#d996c1", font=("times new roman", 15) )
       SearchTypelbl.grid(row=0,column=0, pady=10,
padx=5, sticky="w")
       SearchType = ttk.Combobox(Btn Frame2,
font=("times new roman", 14), state='readonly')
       SearchType['values'] = ('Emp ID', 'Name ',
'Mobile No.')
       SearchType.current(0)
       SearchType.grid(row=0,column=1, pady=10,
padx=5, sticky="w")
```

```
SearchTypetxt = Label(Btn Frame2,
text="Input ",bq="#d996c1", font=("times new
roman", 15))
       SearchTypetxt.grid(row=1, column=0,
pady=10, padx=5, sticky="w")
       txt search =
Entry (Btn Frame2, textvariable=self.Emp ID var,
font=("times new roman", 14,
"bold"),bd=5,relief=GROOVE)
       txt search.grid(row=1, column=1, pady=10,
padx=5)
       Search Btn = Button(Btn Frame2,
text="Search", font=("times new roman", 15,
"bold"),
                       width=20).grid(
           row=2, columnspan=2, padx=10, pady=10)
       ViewAll Btn = Button(Btn Frame2, text="View
All", font=("times new roman", 15, "bold"),
                          width=20).grid(row=3,
columnspan=2, padx=5, pady=5)
       #DeleteBtn = Button(Btn Frame2,
text="Delete", font=("times new roman", 20,
"bold"),
                          #width=20).grid(row=2,
column=0, padx=10, pady=10)
       ClearBtn = Button(Btn Frame2, text="clear
All Fields", font=("times new roman", 15, "bold"),
                         width=20).grid(row=4,
columnspan=2, padx=5, pady=5)
  =========VTFW FRAMES
_____
```

```
View Frame = Frame (self.root, bd=4,
relief=RIDGE, bq="#c9e7f0")
       View Frame.place (x=370, y=170, width=1530,
height=820)
       scroll x = Scrollbar(View Frame,
orient=HORIZONTAL)
       scroll y = Scrollbar(View Frame,
orient=VERTICAL)
       self.Staff table = ttk.Treeview(View Frame,
columns=(
       "Emp ID", "emp_name", "dob", "gender",
"work_as", "Joining_date", "Mobile", "Address"),
xscrollcommand=scroll x.set,
yscrollcommand=scroll y.set)
       scroll x.pack(side=BOTTOM, fill=X)
       scroll y.pack(side=RIGHT, fill=Y)
scroll x.config(command=self.Staff table.xview)
scroll y.config(command=self.Staff table.yview)
       self.Staff table.heading("Emp ID",
text="Employee ID")
       self.Staff table.heading("emp name",
text="Employee Name")
       self.Staff table.heading("dob", text="Date
Of Birth")
       self.Staff table.heading("gender",
text="Gender")
       self.Staff table.heading("work as",
text="work as")
       self.Staff table.heading("Joining date",
text="Joining date")
```

```
self.Staff table.heading("Mobile",
text="Mobile")
       self.Staff table.heading("Address",
text="Address")
       self.Staff table['show'] = 'headings'
       self.Staff table.column("Emp ID",
width=180)
       self.Staff table.column("emp name",
width=240
       self.Staff table.column("dob", width=180)
       self.Staff table.column("gender",
width=120)
       self.Staff table.column("work as",
width=160)
       self.Staff table.column("Joining date",
width=130)
       self.Staff table.column("Mobile",
width=140)
       self.Staff table.column("Address",
width=360)
       self.Staff table.bind("<ButtonRelease-1>",
self.get cursor)
       self.Staff table.pack(fill=BOTH, expand=1)
       self.fetchdata()
   # Functions
   def fetchdata(self):
       con = pymysql.connect(user='root',
password='Password@21',
                             host='localhost',
database='ZOOMANAGEMENT')
       cur = con.cursor()
       query = "select * from staff"
```

```
cur.execute(query)
       rows = cur.fetchall()
       if len(rows)!=0:
self.Staff table.delete(*self.Staff table.get chil
dren())
           for row in rows:
               self.Staff table.insert('', END,
values=row)
           con.commit()
       con.close()
   def get cursor(self, ev):
       cursor row = self.Staff table.focus()
       contents =
self.Staff table.item(cursor row)
       row = contents['values']
       print(row)
   def exit(self):
       exit()
```

Ticket.py

## Thank you