



KONGU ENGINEERING COLLEGE

(Autonomous)

Perundurai, Erode – 638 060



**DEPARTMENT OF COMPUTER
APPLICATIONS**

**AN APPLICATION PROJECT
REPORT**

**For
EMPLOYEE MANAGEMENT
SYSTEM**

PYTHON PROGRAMMING (22MCC11)

Submitted by

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DEPARTMENT OF COMPUTER APPLICATIONS

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Course Name : PYTHON PROGRAMMING

Semester : I

Certified that this is a bonafide record of work for application project done by the above students for **22MCC11 – PYTHON PROGRAMMING** during the academic year **2022-2023**.

Submitted for the Viva Voce Examination held on _____

Lab-in-Charge

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ABSTRACT

Employee Management system is an application that enables users to create and store Employee Records. This system protects the professional and personal information of employees and the Company. This System works on the concepts of taking the information from the database making required changes in the fetched data and applying the changes in the record which we will see in our Promote Employee System. We can also have the information about all the existing employees by using the Display Employee function. It assists in the automation of manual operations, saving both time and money. The main advantage of connecting our program to the database is that the information becomes lossless even after closing our program a number of times.

It also helps to know the number of employees in different departments .This application is helpful to department of the organization which maintains data of employees related to an organization.It is simple to understand and can be used by anyone who is not even familiar with simple employees system. It is user friendly and just asks the user to follow step by step operations by giving him few options. It is fast and can perform many operations of a company.It helps to have full –fledged control over his/her employees.It receives user name and password to login and register.It keeps the record of user salary,department and employee name , age and so on....

This software package has been developed using the powerful coding tools of PYTHON. The package contains different modules like Employee details. This version of the software has multi-user approach. For further enhancement or development of the package, user feedback will be considered.

APPLICATION MODULES

- Add Employee
- Update Employee
- Delete Employee

ADD EMPLOYEE:

This module allows the organization to add the new employee details to the employee database. The employee details will be displayed in the bottom of the page.

UPDATE EMPLOYEE:

This module allows the organization to update the details of the employee. These details are updated in the employee database.

DELETE EMPLOYEE:

In this module, organization can delete the particular employee details in the employee database. Details of the particular employee are removed in the database.

CODING

#Update

```
def update_data(self):
    if self.var_dep.get()==' 'or self.var_email.get()==' ':
        messagebox.showerror('Error','All Fields are required')
    else:
        try:
            update=messagebox.askyesno('update','Are you sure update this
employee data')
            if update>0:

conn=mysql.connector.connect(host='localhost',username='root',password='
Sindi',database='employee')
            my_cursor=conn.cursor()
            my_cursor.execute('update employee set
Department=%s,Name=%s,Designation=%s,Email=%s,Address=%s,Married
_status=%s,DOB=%s,DOJ=%s,ID_TYPE=%s,Gender=%s,Phone_no=%s,C
ountry=%s,Salary=%s where ID_NUM=%s',(

                self.var_dep.get(),
                self.var_name.get(),
                self.var_designation.get(),
                self.var_email.get(),
                self.var_address.get(),
                self.var_married.get(),
                self.var_dob.get(),
                self.var_doj.get(),
                self.var_idproffcomb.get(),
                self.var_gender.get(),
                self.var_phone.get(),
                self.var_country.get(),
                self.var_salary.get(),
                self.var_idproff.get(),
                ))
        except:
            else:
                if not update:
                    return
            conn.commit()
            self.fetch_data()
            conn.close()
```

```

        messagebox.showinfo('suceess','Employee Successfully
update',parent=self.root)
    except Exception as es:
        messagebox.showerror('Error',f'Due To:{str(es)}',parent=self.root)

```

#Delete

```

def delete_data(self):
    if self.var_dep.get()==""or self.var_email.get()=="":
        messagebox.showerror('Error','All Fields are required')
    else:
        try:
            Delete=messagebox.askyesno('Delete','Are you sure delete this
employee',parent=self.root)
            if Delete>0:

conn=mysql.connector.connect(host='localhost',username='root',password='
Sindi',database='employee')
                my_cursor=conn.cursor()
                sql='delete from employee where ID_NUM=%s'
                value=(self.var_idproff.get(),)
                my_cursor.execute(sql,value)
            else:
                if not Delete:
                    return
                conn.commit()
                self.fetch_data()
                conn.close()
                messagebox.showinfo('Delete','Employee Successfully
Deleted',parent=self.root)
        except Exception as es:
            messagebox.showerror('Error',f'Due To:{str(es)}',parent=self.root)

```

#Reset

```

def reset_data(self):

    self.var_dep.set("select Department")
    self.var_name.set("")
    self.var_designation.set("")

```

```

self.var_email.set("")
self.var_address.set("")
self.var_married.set("Married")
self.var_dob.set("")
self.var_doj.set("")
self.var_idproffcomb.set("select ID")
self.var_idproff.set("")
self.var_gender.set("")
self.var_phone.set("")
self.var_country.set("")
self.var_salary.set("")

```

#Search

```

def search_data(self):
    if self.var_com_search.get()=="or self.var_search.get()=="":
        messagebox.showerror('Error','Please select option')
    else:
        try:

conn=mysql.connector.connect(host='localhost',username='root',password='
Sindi',database='employee')
        my_cursor=conn.cursor()
        my_cursor.execute('select *from employee where '
+str(self.var_com_search.get())+" LIKE
'% "+str(self.var_search.get()+"% "')
        rows=my_cursor.fetchall()
        if len(rows)!=0:
            self.employee_table.delete(*self.employee_table.get_children())
            for i in rows:
                self.employee_table.insert("",END,values=i)
            conn.commit()
            conn.close()
        except Exception as es:
            messagebox.showerror('Error',f'Due
To:{str(es)}',parent=self.root)

```

```

if __name__=="__main__":
    root=Tk()

```



```
obj=Employee(root)
root.mainloop()
```

Search Details

employee Management System

EMPLOYEE MANNAGEMENT SYSTEM

TEAMWORK

Employee Information

Department: Name: Phone No:

designation: Email: Country:

Address: Married Status: Salary(CTC):

DOB: DOJ:

ADDHAR: Gender:

MASK ADVICE
Masks are recommended
Please wear a mask to protect others and yourself. Please avoid handshakes and avoid public transport. Please.
Children under 12 years of age do not need to wear a mask.

Save
Update
Delete
Clear


Employee Details
Employee Table Details

Search By: **Search** **Show ALL**  **wear a mask**

Department	Name	Designation	Email	address	Married	DOB	DOJ	ID type	ID proff	Gender	Phone	country	Salary
Software Engineer	john	Snior eng	john@email.om	erode	Married	12-12-2000	15-15-2020	ADDHAR	89654123789	Male	6202384284	india	50000

Show all Employee details

employee Management System



EMPLOYEE MANNAGEMENT SYSTEM



TEAMWORK

Employee Information

Department

Software Engineer

Name:

john

Phone No:

6202384284

designition:

Snior eng

Email:

john@email.om

Country:

india

Address:

erode

Married Status:

Married

Salary(CTC):

50000

DOB:

12-12-2000

DOJ:

15-15-2020

ADDHAR


89654123789

Gender:

Male

MASK ADVICE

Masks are recommended



Please wear a mask in public when you can't physically distance from others for 2 & public transport, market.
Children under 12 years of age do not need to wear a mask.

Save

Update

Delete

Clear

Employee Details

Employee Table Details

Search By:

Search

Show ALL

 wear a mask

Department	Name	Designation	Email	address	Married	DOB	DOJ	ID type	ID proff	Gender	Phone	country	Salary
Software Engineer	stark	Snior eng	jstark@email.om	betiah	unmarried	14-12-1998	15-15-2022	ADDHAR	29654123759	Male	620262013	india	50000
Software Engineer	pooja	Snior eng	pooja@email.om	erode	Married	12-12-1999	15-15-2020	ADDHAR	89654123721	Female	6202384257	india	50000
Software Engineer	sweta	Snior eng	sweta@email.om	betiah	unmarried	12-12-1999	15-15-2020	ADDHAR	89654123781	Female	6202384200	india	50000
Software Engineer	pawan	Snior eng	pawan@email.om	betiah	unmarried	12-12-1999	15-15-2020	ADDHAR	89654123784	Male	6202384250	india	50000
Software Engineer	john	Snior eng	john@email.om	erode	Married	12-12-2000	15-15-2020	ADDHAR	89654123789	Male	6202384284	india	50000

Type here to search


24°C Cloudy

09:00

06-01-2023

Deleting Details

employee Management System



EMPLOYEE MANNAGEMENT SYSTEM



TEAMWORK

Employee Infomation

Department

Software Engineer

Name:

john

Phone No:

6202384284

designition:

Snior eng

Email:

john@email.com

Country:

India

Address:

erode

Married Status:

Married

DOB:

12-12-2000

DOJ:

15-15-2020

ADDHAR

89654123789

Gender:

Male

Save

Update

Delete

Clear

Employee Details

Employee Table Details


Search By:

ID_NUM

89654123789

Search

Show ALL




wear a mask


Department	Name	Designation	Email	address	Married	DOB	DOJ	ID type	ID proff	Gender	Phone	country	Salary
Manager	ramu	Snior mannager	ramu@email.com	narkatia ganj	Married	14-12-1998	20-15-2022	ADDHAR	29654123726	Male	6202626545	india	80000
Software Engineer	stark	Snior eng	jitark@email.com	betiah	unmarried	14-12-1998	15-15-2022	ADDHAR	29654123759	Male	620262013	india	50000
Software Engineer	pooja	Snior eng	pooja@email.com	erode	Married	12-12-1999	15-15-2020	ADDHAR	89654123721	Female	6202384257	india	50000
Software Engineer	sweta	Snior eng	sweta@email.com	betiah	unmarried	12-12-1999	15-15-2020	ADDHAR	89654123781	Female	6202384200	india	50000
Software Engineer	pavan	Snior eng	pavan@email.com	betiah	unmarried	12-12-1999	15-15-2020	ADDHAR	89654123784	Male	6202384250	india	50000

Update Details

Employee Management System



EMPLOYEE MANNAGEMENT SYSTEM



TEAMWORK

Employee Infomation

Department

Software Engineer

Name:

john

Phone No:

6202384284

designition:

Snior eng

Email:

john@email.com

Country:

India

Address:

erode

Married Status:

Married

DOB:

12-12-2000

DOJ:

15-15-2020

ADDHAR

89654123789

Gender:

Male

Save

Update

Delete

Clear

Employee Details

Employee Table Details


Search By:

ID_NUM

89654123789

Search

Show ALL



wear a mask

Department	Name	Designation	Email	address	Married	DOB	DOJ	ID type	ID proff	Gender	Phone	country	Salary
Manager	ramu	Snior mannager	ramu@email.com	narkatia ganj	Married	14-12-1998	20-15-2022	ADDHAR	29654123726	Male	6202626545	india	80000
Software Engineer	stark	Snior eng	jitark@email.com	betiah	unmarried	14-12-1998	15-15-2022	ADDHAR	29654123759	Male	620262013	india	50000
Software Engineer	pooja	Snior eng	pooja@email.com	erode	Married	12-12-1999	15-15-2020	ADDHAR	89654123721	Female	6202384257	india	50000
Software Engineer	sweta	Snior eng	sweta@email.com	betiah	unmarried	12-12-1999	15-15-2020	ADDHAR	89654123781	Female	6202384200	india	50000
Software Engineer	pavan	Snior eng	pavan@email.com	betiah	unmarried	12-12-1999	15-15-2020	ADDHAR	89654123784	Male	6202384250	india	50000

