Software Engineering Mini Project

Name – Akanksha Sambhaji Desai   **MIS**: 111903011
Name – Aishwarya Sanjay Yabaji   **MIS**: 111903010
Batch – T1
Course Teacher - Prof.R.Y.Sarode

Project:

Validation on Registration Form: A registration form is used to register for the user.

GitHub Repository :

https://github.com/ak460/SE_PROJECT

Fields and their Validation :

1. **Name –**
   If user does not enter the name then, after save button show message "Enter your name".

2. **Contact –**
   If user not enter contact then after save button show message "Enter contact number"

   all entries enter by user are digits and length of contact is 10 then contact is valid otherwise show message "Invalid contact,Enter valid contact".

3. **Email-Id –**

If user not enter Email ID then after submit button show message "Enter Email id"

Email ID in form of "^([a-zA-Z0-9_\-\.]+)@([a-zA-Z0-9_\-\.]+)\.([a-zA-Z]{2,5})$" then it is valid otherwise show message "Invalid", Invalid E-mail enter by user"
e.g. admin123@gmail.com is valid
    admin123gmail.com is invalid

4. Gender –

Option Menu : Male & Female

Radio button - The **Radio button** is used to provide multiple options to the user but the user can select only one option.

By Deafault gender is set to 'Male'

4. Country –
Attributes are used in this field.

If user not select any attributes then it show message "select Country"

5. ID_Type-
Attributes are used in this field like Adhar card, Passport, Driving license

If user does not select any field then it show a message "Invalid,Enter ID Type"

6. ID_No-
If user don't write any number it shows "Please ,enter valid ID_no"
If Length of ID_no is not 12 then it show a message "Please ,Enter 12digit Id_no"

7. Password-

If user does not enter anything it shows "Please enter password"
And password should have following format;

```
"^(?=.*[0-9])(?=.*[a-z])(?=.*[A-Z](?=.*[^a-bA-B0-9]))"
```

It check the validation that if password contain any special character, any digit, upper or lower case letter or not.
Exam- Akshu#123

8. **Confirm Password-**
   It check the validation that if the password and confirm password are same or not.
   If not then after save it shows "Please Enter valid confirm password"
   If we don't write anything then it shows "Please, Enter confirm password"
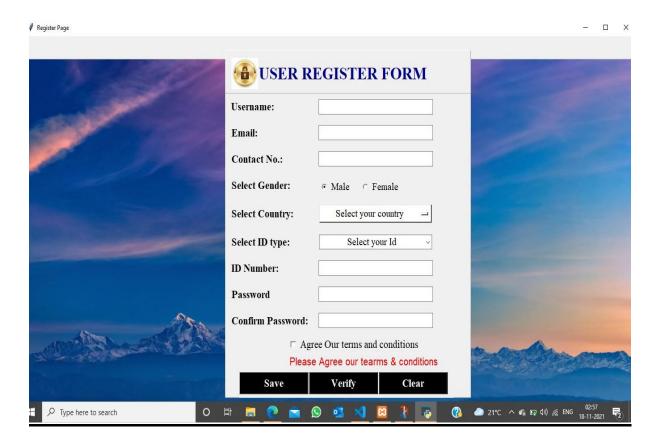
About Tkinter :

- Registration forms are created using Python library '**Tkinter**.'
- Tkinter allows creating **GUI-based applications** and is rich with helpful widgets.
- For the database, we have used mySql databse
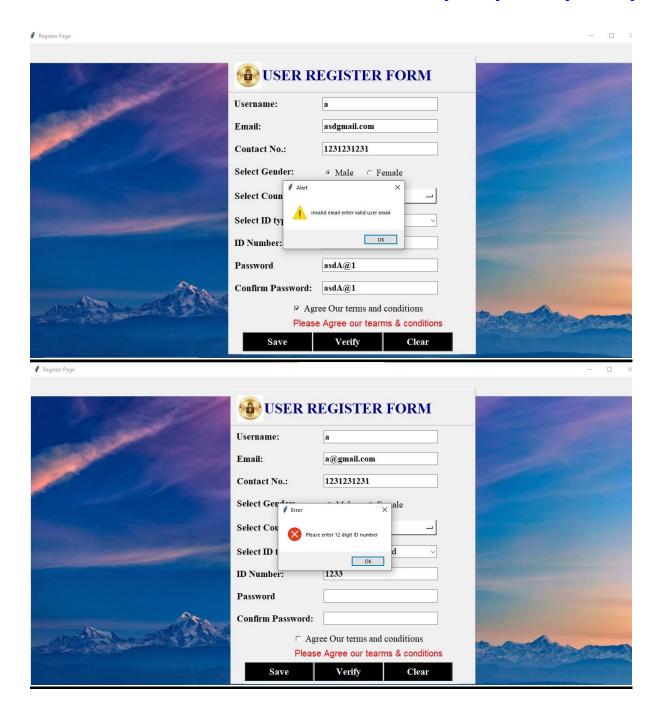- Here is the description of widgets used in the program :

Widget Name	Widget Overview

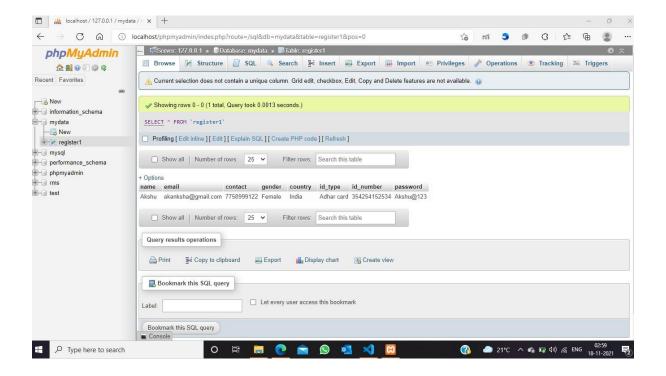| Tkinter Frame	We have used two frames with the name **left frame** & **right frame.** They position the logging and registration page. The geometry manager used to position frames is Place.
Tkinter Label	The Label widget is used to display text on the application screen. All the text on the screen like 'Enter Email', 'Enter Name', etc are added using the Label widget.
Entry widgets	Entry boxes provide white space to the user and the user can type the details inside it. It is one of the most important widgets used in any application.
Tkinter Radio button	Radio button widget is used to provide a single choice to the users. In the application, the user can choose only one gender at a time.
Option Menu	Option Menu is used to display the dropdown. It is used to display the list of countries or states in the application.
Button	Buttons are used to perform an action when clicked.

Output :

Validations Screenshots :

USER REGISTER FORM

Username: a

Email: asdgmail.com

Contact No.: 1231231231

Select Gender: ⦿ Male ◯ Female

Select Coun[try]

Alert ✕

⚠ invalid email enter valid user email

OK

Select ID typ[e]

ID Number:

Password asdA@1

Confirm Password: asdA@1

☑ Agree Our terms and conditions

Please Agree our tearms & conditions

| Save | Verify | Clear |

USER REGISTER FORM

Username: a

Email: a@gmail.com

Contact No.: 1231231231

Select Gender: ⦿ Male ◯ Female

Select Cou[ntry]

Error ✕

❌ Please enter 12 digit ID number

OK

Select ID t[ype]

ID Number: 1233

Password

Confirm Password:

☐ Agree Our terms and conditions

Please Agree our tearms & conditions

| Save | Verify | Clear |

Database is generated :

Prof. R. Y. Sarode
Course teacher name