**Software Engineering Mini Project**

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**Project:**

Volunteer Registration Form: A volunteer registration form is used to gather volunteers for an event or activity.

**GitHub Repository :**

<https://github.com/theimpulse3000/volunteer-registration-form.git>

**Fields and their Validation :**

1. **Name –**

If user does not enter the name then, after submit button show message “Enter name first”.

All entries entered by user are alphabets then name is valid otherwise show message “ Invalid , Name is not allowed” with last character showing invalid.

1. **Contact –**

If user not enter contact then after submit button show message “Enter contact first”

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

1. **Email-Id –**

If user not enter Email ID then after submit button show message “Enter Email first”

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 “Alert", Invalid E-mail enter by user”

e.g. [admin123@gmail.com](mailto:admin123@gmail.com) is valid

admin123gmail.com is invalid

additional:-

confirmation Email of successfully submitted this form in provided mail

Id & password.

1. **Age –**

If user not enter age (Range 1 to 150) then show message “Enter Age First”

1. **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.

If user not select any button then message show “Select Gender”

1. **Permanent Address –**

If user not enter address after submit button show message “Enter current address”

1. **State and Country –**

Attributes are used in this field.

Id user not select any attributes in respective field the show message “Select state” or “select Country”

1. **Areas according to skill –**

Check buttons options:-

Hospital

Orphanages

School

Community Services

Computer Classes

Art and Entertainment

If user not select any check button from above options then show message “select areas according to skill”

**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 [SQLite3](https://www.sqlite.org/index.html) which comes pre-installed with python. It is a lighter version of SQL and can hold 281 terabytes of data
* 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](https://pythonguides.com/python-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](https://pythonguides.com/python-tkinter-entry/) | 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](https://pythonguides.com/python-tkinter-optionmenu/) | Option Menu is used to display the dropdown. It is used to display the list of countries or states in the application. |
| [Button](https://pythonguides.com/python-tkinter-button/) | Buttons are used to perform an action when clicked. |

**Output :**

A picture containing chart

Description automatically generated

**Validations Screenshots :**

Graphical user interface

Description automatically generated with medium confidence

Graphical user interface

Description automatically generated

Graphical user interface

Description automatically generated

**Output for Check Button -**

Graphical user interface

Description automatically generated