# INT 216 CAPSTONE PROJECT

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Project Title: Donation Tracker


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# DECLARATION

*I here by Declare that the project work entitled("Donation Tracker") is an authentic record of our work carried out as requirements of Capstone Project for the award of B.Tech degree in Python Project from Lovely Professional University, Phagwara, under the guidance of **Ved Prakash Chaubey** sir, during January to May 2023. All the information furnished in this capstone project report is based on our own intensive work and is genuine.*

*Name of the Student: Mohammad Sahir Baig*

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# CERTIFICATE

*This is to certify that the declaration statement made by this student is correct to the best of my knowledge and belief. They have completed this Capstone Project under my guidance and supervision. The present work is the result of him/his original investigation, effort, and study. No part of the work has ever been submitted for any other degree at any University. The Capstone Project is for the submission and partial fulfilment of the conditions for the award of B.Tech Degree in from Lovely Professional University.*

Signature and Name of the Mentor

Designation

School of Computer Science and Engineering

Lovely Professional University, Phagwara, Punjab

# TABLE OF CONTENTS

# ABSTRACT

A donation tracker is a software application designed to help organizations or individuals keep track of donations. The tracker typically allows users to input the details of each donation, such as the amount donated, the donor's name and contact information, and any other relevant details. The tracker then stores this information in a database or spreadsheet and provides users with tools for analyzing and reporting on the data.

A donation tracker can be used by a variety of organizations and individuals, such as charities, non-profits, political campaigns, and churches. By keeping track of donations in a systematic manner, these organizations can better manage their fundraising efforts, track donor trends, and generate reports on the success of their campaigns.

# INTRODUCTION

Donations are a critical source of funding for many organizations, from charities and non-profits to political campaigns and religious institutions. However, managing donations can be a challenging task, especially as the number of donors and donation amounts grow. A donation tracker is a software application designed to simplify this process by providing a centralized platform for managing and analyzing donation data.

A donation tracker typically includes tools for recording donations, tracking donor information, generating reports, and analyzing donation trends. These tools can help organizations better understand their donors and their giving habits, which in turn can help them tailor their fundraising efforts to be more effective.

Donation trackers are used by a wide variety of organizations, including charities, non-profits, political campaigns, and religious institutions. They are especially useful for organizations with limited resources or staff, as they can help automate many of the tasks involved in managing donations and reduce the risk of errors or oversights.

# OBJECTIVE

The objective of a donation tracker is to provide organizations with a comprehensive, easy-to-use platform for managing and analyzing donation data. The tracker should be able to record donations and donor information, generate reports on donation trends and campaign success, and provide tools for analyzing and understanding donor behavior. The goal of a donation tracker is to help organizations maximize their fundraising efforts, build stronger relationships with donors, and achieve their fundraising goals more efficiently and effectively. By providing a centralized platform for managing donations, a donation tracker can also help reduce the risk of errors or oversights, streamline donation tracking and management, and improve overall fundraising performance.

# DESCRIPTION

A donation tracker is a software application that provides a centralized platform for managing and analyzing donation data. It typically includes tools for recording donations, tracking donor information, generating reports, and analyzing donation trends.

The core functionality of a donation tracker includes the ability to record one-time and recurring donations, track donor contact information, generate thank-you letters and tax receipts, and generate reports on donation trends and campaign success. Many donation trackers also provide integration with online payment platforms and other fundraising tools, making it easier for users to manage their donations from a single platform.

In addition to these core features, a donation tracker may also include additional functionality such as event management, volunteer management, and social media integration.

# CODE

```python
import tkinter as tk

from PIL import ImageTk, Image

global total_donations

total_donations = 0


def add_donation():
    # Get donation amount from entry widget
    try:
        donation_amount = float(donation_entry.get())
    except ValueError:
        # Handle invalid input
        donation_entry.delete(0, tk.END)
        return


    # Update total donations

    global total_donations
    total_donations += donation_amount
    total_label.config(text="${:.2f}".format(total_donations))


    # Clear entry widget
    donation_entry.delete(0, tk.END)


def generate_report():
    report_text = "Total donations: ${:.2f}".format(total_donations)
```

```python
    report_window = tk.Toplevel(root)

    tk.Label(report_window, text=report_text).pack()


# Create Tkinter window

root = tk.Tk()

root.title("Charity Tracker")

root.geometry("680x480")


# Load image file

sear= ImageTk.PhotoImage((Image.open("imgae.png")))


# Create Canvas widget to display image

panel = tk.Label(root, text="", image=sear)

panel.place(x=0,y=0, relwidth=1, relheight=1)


# Run Tkinter event loop


# Initialize variables
# Create input widgets

tk.Label(root, text="Enter donation amount:").place(x=280, y=240)

donation_entry = tk.Entry(root)

donation_entry.place(x=270, y=260)

tk.Button(root, text="Donate", command=add_donation).place(x=280,
y=280)


# Create report widgets

tk.Label(root, text="Total donations:").place(x=280, y=310)
```

```python
total_label = tk.Label(root, text="$0")

total_label.place(x=370, y=310)

tk.Button(root, text="Generate report",
command=generate_report).place(x=280, y=330)

#Import the required library


root.mainloop()
```
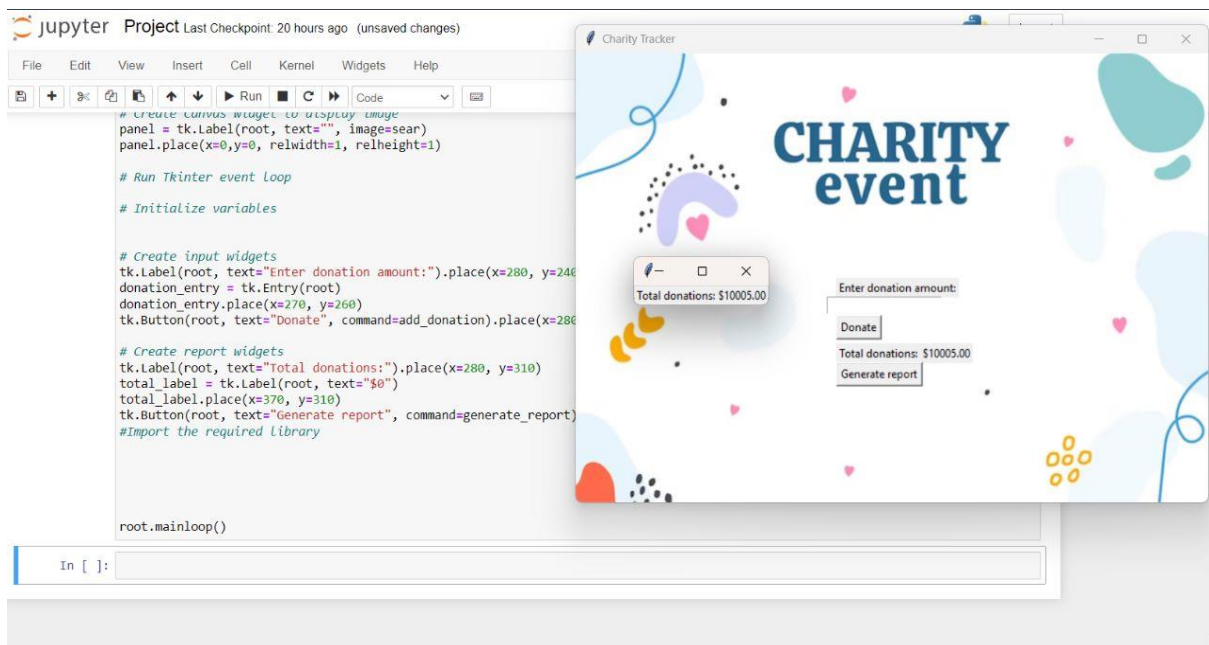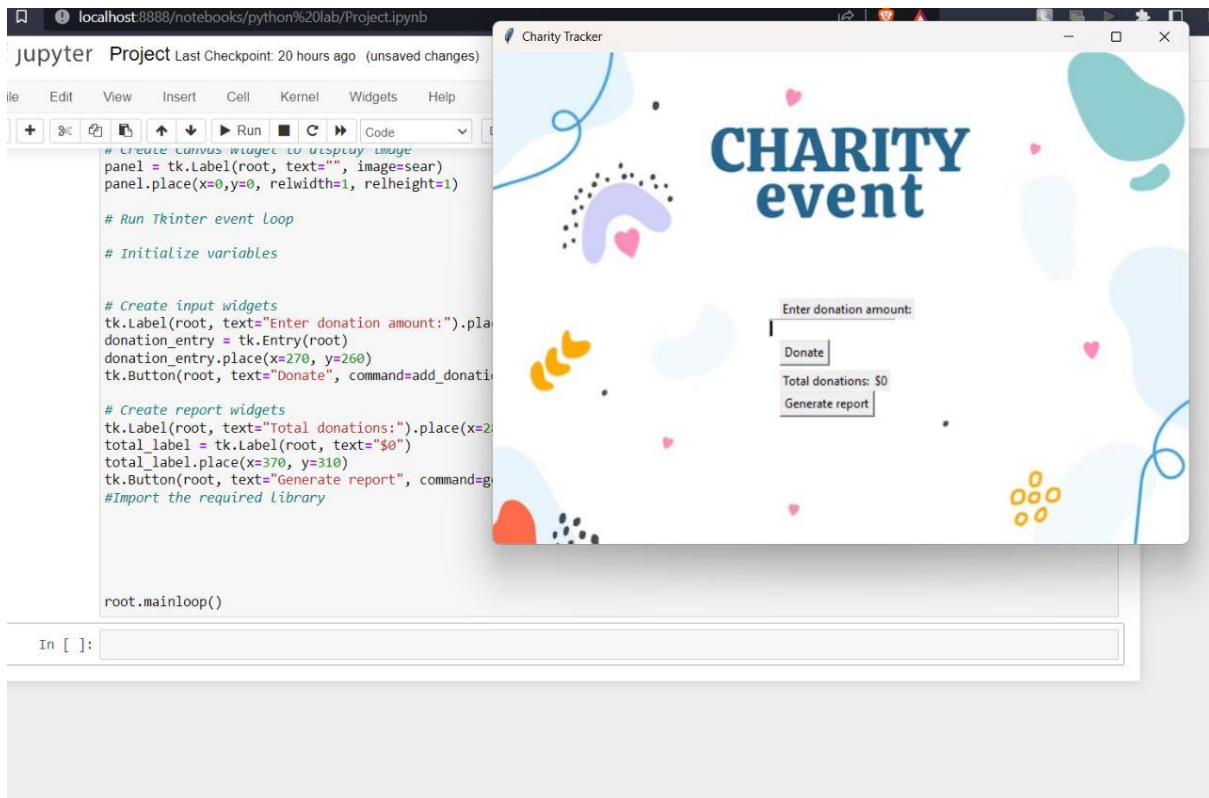
# SCOPE OF THE PROJECT

The scope of a donation tracker is to provide a comprehensive platform for managing and analyzing donation data. The core features of a donation tracker typically include the ability to record one-time and recurring donations, track donor contact information, generate thank-you letters and tax receipts, and generate reports on donation trends and campaign success.

In addition to these core features, a donation tracker may also include additional functionality such as event management, volunteer management, and social media integration.

The ultimate goal of a donation tracker is to provide a centralized platform for managing all aspects of a donation program, from recording donations and donor information to generating reports and analyzing donation trends. By using a donation tracker, organizations can better manage their fundraising efforts, track donor trends, and generate reports on the success of their campaigns. This can help improve fundraising performance, build stronger relationships with donors, and achieve greater success in reaching fundraising goals.

# FUTURE DEVELOPMENT OF THE   PROJECT

AI-powered analytics: As AI and machine learning technologies continue to evolve, it's possible that future versions of the donation tracker could include advanced analytics features that use these technologies to identify patterns and trends in donation data, make predictions about future donation trends, and generate more accurate fundraising recommendations.

Blockchain integration: The use of blockchain technology could be integrated into a donation tracker, allowing for secure and transparent donation transactions, and enabling greater trust and accountability between donors and organizations.

Wearable technology: Wearable technology could be integrated into fundraising campaigns, allowing donors to track their own physical activity or other metrics in exchange for donations, or allowing organizations to track fundraising progress in real-time.

# CONCLUSION

In conclusion, a donation tracker is a valuable tool for non-profit organizations and other charitable causes to track their donations and generate reports on the amount donated.
With the help of Python and the Tkinter library, it is possible to develop a user-friendly and efficient donation tracker that can help organizations manage their fundraising efforts more effectively.

The project we have discussed in this context has allowed users to input their donation amount, keep track of the total donations, and generate reports on the amount donated.
This project can be further developed to include features such as mobile app integration, advanced analytics, and social media integration, among others

.

By using a donation tracker, organizations can gain insights into their donation data, identify trends and patterns, and make data-driven decisions about their fundraising strategies.
This can lead to more effective fundraising efforts and ultimately greater success in achieving their charitable goals.

Overall, the development of a donation tracker project can greatly benefit charitable organizations and causes, and with the constant advancements in technology, there is great potential for further development and innovation in this field.

# "THANK YOU"