

APPENDIX 1

DAILY EXPENSE TRACKER

END TERM REPORT

by

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APPENDIX 2

Student Declaration

This is to declare that this report has been written by me. No part of the report is copied from other sources. All information included from other sources have been duly acknowledged. I aver that if any part of the report is found to be copied, I shall take full responsibility for it.

*Name: Harsh Medhavi
Roll Number: RK19PGA07*

*Place: Adampur, Punjab
Date: 30th December 2020*

APPENDIX 3

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APPENDIX 4

BONAFIDE CERTIFICATE

Certified that this project report “ DAILY EXPENSE TRACKER ” is the bonafide work of “HARSH MEDHAVI ”who carried out the project work under my supervision.

<< Signature of the
Supervisor>> (Due to
Covid 19, signature is
exempted)

<< Name of
supervisor>>

<< Academic
Designation>>

<< ID of Supervisor>>

<< Department of
Supervisor>>

Background and Objective of the Project assigned

The thing which is most value in today's life is money. Everyone out here wants to keep a track on how they spend their money daily and want to have a regular check on what all they spent it for on daily basis. This is something which is independent of your country, be it so that whether you are from India or any other nation, money is playing a significant amount of role in modern day life. Hence we all are very much serious regarding the use of it and wants it to manage in an efficient manner.

A daily Expense Tracker is a tool that allows users to keep track of their spending to ensure that they stick to a budget and don't go overboard. Such a system will be having various modules to provide an intuitive and user-friendly interface. Users should be given the option to input expenses and add credits, salaries, refunds, and bonuses. They should also get notified whenever they seem to be going off-track. Including the option of setting a daily budget or spending limit can also help users as then they can monitor how much they are spending on a daily basis. Such a tool will prove to be beneficial to all kinds of people, including home- makers who are on a strict budget and college- going students who have to get by with monthly pocket-money! Analysing the inputs made to this tool will help users understand what they spend the most money on so that they can devise ways to cut back on spending on that particular item.

The main motivation to develop this project primarily comes from the following mentioned reasons:

- You have no control over your money:
Human nature always inspires us to seek for new things, which might be necessary or even unnecessary to us. In order to fulfil this demand, we have to spend a lot of money and thus, we are not having any kind of control on the usage of money.
- You don't have funds for emergencies:
If people are careless about the usage of money, then at the time of emergencies, those people would be finding themselves somewhere in the middle of the desert. They will not be having any kind of assistance, as earlier he used all of his money in a vague fashion, leading him to be short of money when it was actually required.



- You are constantly worried and stressed about your finances:
Since, people aren't aware of the appropriate places to spend money, they actually fell down in the debt of confusion and disorder. They start getting stressed about their finances. Moreover, this leads to a complex life which is revolving somewhere around money only. Hence, giving no time to explore the other phases of life.
- No saving at all:
If we spend our money in a vague fashion, then we would be spending all the money we get as our salary on variety of things. However, here you won't be able to save money for future prospects as you are not having any kind of proper plan so as to what you are going to do with your money in the recent future.



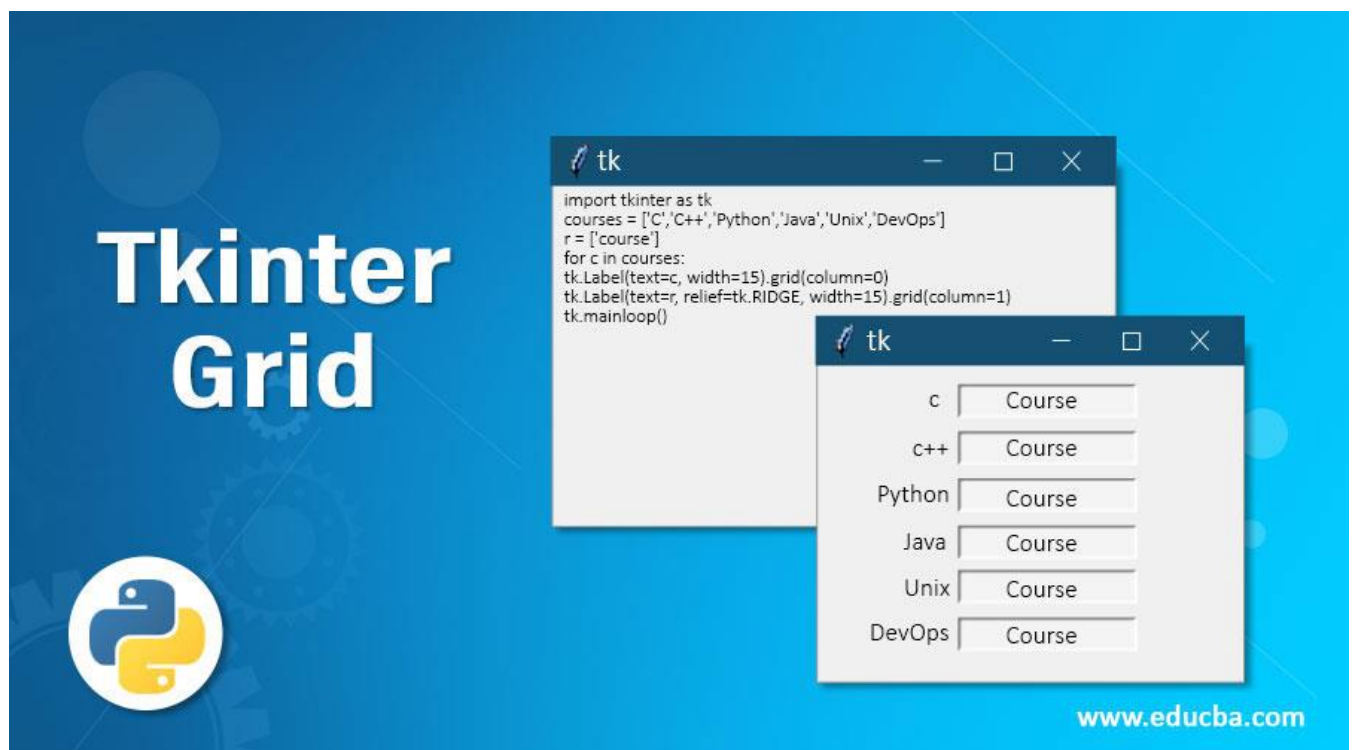
Until now, we have encountered various problems. Nevertheless, all these problems can be sorted with the help of expense tracker as this is going to make your life organised. In addition, when things get organised, complexity of life gets altered into simplicity of life. You would be constantly having a safe check on your spending, and hence you all can even save the money. This basic ideology motivated me to complete this project on “Daily Expense Tracker”.

Description of the Project

For the successful completion of this project, we have taken the assistance of following modules:

1. Tkinter module: Tkinter is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit.
2. Tkcalendar module has been added by writing `pip install tkcalendar` in the command prompt. This has been done in order to get access to date widgets in the GUI.

The code has been written in JUPYTER NOTEBOOK.

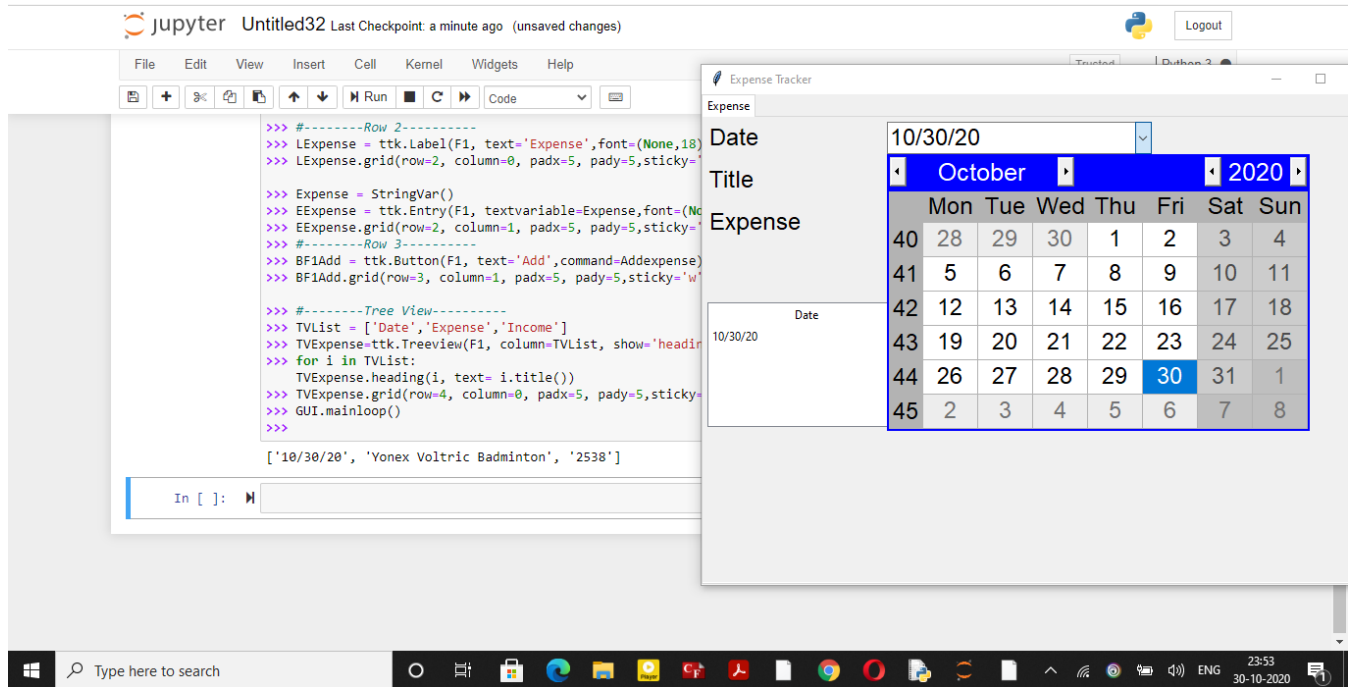


Description of Work Division in terms of Roles among Students

I handle the whole project alone. I am responsible for writing each and every line of this code as per my knowledge. Every kind of work ranging from designing basic idea, including GUIs, installing tkcalendar for external help, etc has been done under my guidance only.

Implementation of scheduled work of Project

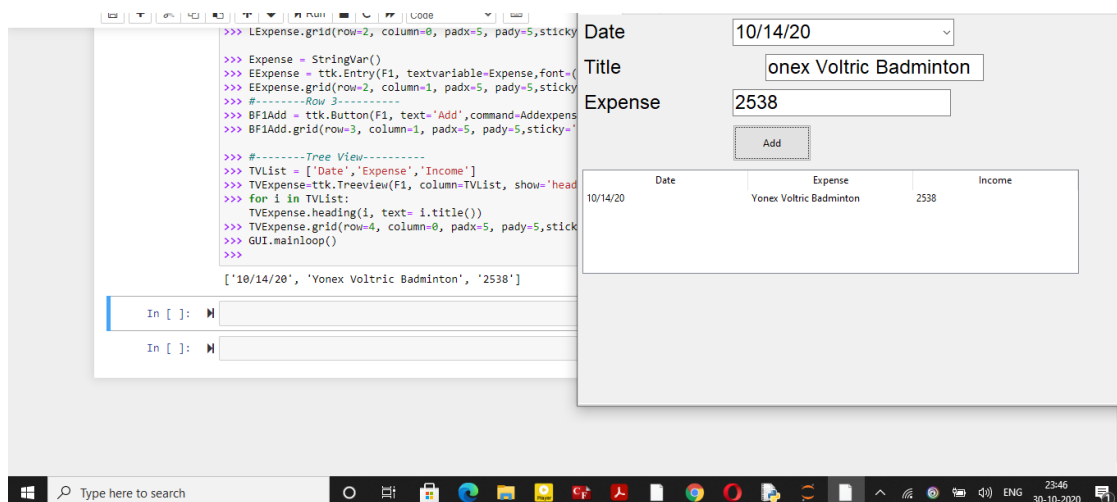
The following are the attached screenshots of the project:



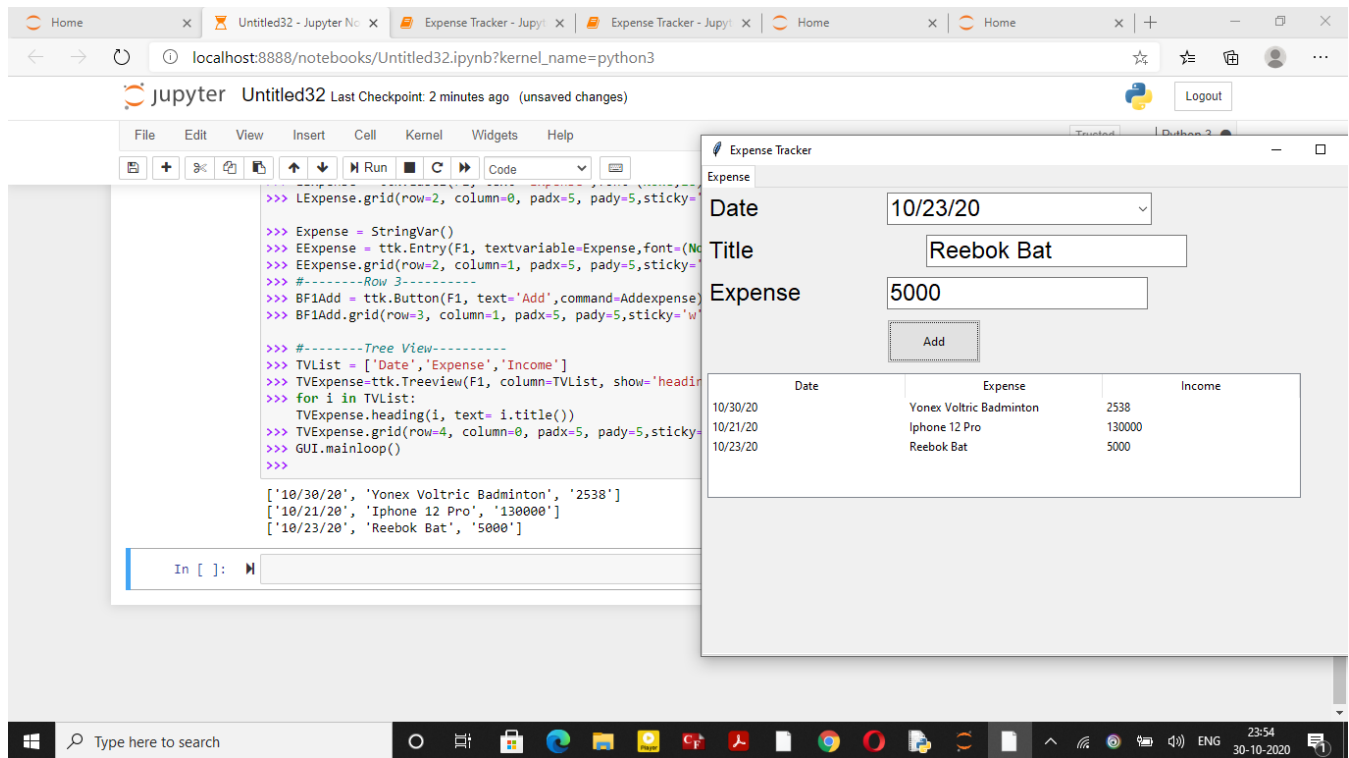
This screenshot shows you the output box of the code. In order to feed your details inside it, one is required to give inputs for three things. These are:

1. Date: You are required to drop the input value of the date of expenditure
2. Title: In this part, one I supposed to add the name of the thing on which you have spent money for.
3. Expense: This part handles the accounting arena of the GUI. This will be including the cost of the item you have purchased.

In the above-mentioned screenshot, one can easily see the drop down for selecting date as an input value.



In the next screenshot, one can see that after entering all the details in the required areas, you will be getting a box sort of display with three columns. Here you can see the values you have added.



This is how one can add multiple values and keep a track of their daily expenditures so as to have a much more organized life.

Code: (Run on Jupiter)

```
>>> from tkinter import *
>>> from tkinter import ttk
>>> from tkinter import messagebox
>>> from tkinter.ttk import Notebook
>>> from tkcalendar import DateEntry

>>> def Addexpense():
    a = EDate.get()
    b = Title.get()
    c = Expense.get()
    data = [a,b,c]
    print(data)
    TVExpense.insert('', 'end', values=data)

>>> GUI = Tk()
>>> GUI.title('Expense Tracker')
"
```

```

>>> GUI.geometry('700x500')
''
>>> #GUI.state('zoomed')
''
>>> Tab = Notebook(GUI)
>>> F1 = Frame(Tab, width=500,height=500)
>>> F2 = Frame(Tab, width=500,height=500)
>>> Tab.add(F1, text='Expense')
>>> #Tab.add(F2, text='Income')
>>> Tab.pack(fill=BOTH, expand=1)
>>> #Tab 1 (Expense)

>>> #-----Row 0-----
>>> LDate = ttk.Label(F1, text='Date',font=(None,18))
>>> LDate.grid(row=0, column=0, padx=5, pady=5,sticky='w')

>>> #use data picker
>>> #pip install tkcalendar
>>> EDate = DateEntry(F1, width=19,background='blue',foreground='white',font=(None,18))
>>> EDate.grid(row=0,column=1, padx=5, pady=5,sticky='w')

>>> #-----Row 1-----
>>> LTitle = ttk.Label(F1, text='Title',font=(None,18))
>>> LTitle.grid(row=1, column=0, padx=5, pady=5,sticky='w')
>>> Title = StringVar()
>>> ETitle = ttk.Entry(F1, textvariable=Title,font=(None,18))
>>> ETitle.grid(row=1, column=1, padx=5, pady=5)

>>> #-----Row 2-----
>>> LExpense = ttk.Label(F1, text='Expense',font=(None,18))
>>> LExpense.grid(row=2, column=0, padx=5, pady=5,sticky='w')

>>> Expense = StringVar()
>>> EExpense = ttk.Entry(F1, textvariable=Expense,font=(None,18))
>>> EExpense.grid(row=2, column=1, padx=5, pady=5,sticky='w')
>>> #-----Row 3-----
>>> BF1Add = ttk.Button(F1, text='Add',command=Addexpense)
>>> BF1Add.grid(row=3, column=1, padx=5, pady=5,sticky='w', ipadx=10,ipady=10)

>>> #-----Tree View-----
>>> TVList = ['Date','Expense','Income']
>>> TVExpense=ttk.Treeview(F1, column=TVList, show='headings', height=5)
>>> for i in TVList:
    TVExpense.heading(i, text= i.title())
>>> TVExpense.grid(row=4, column=0, padx=5, pady=5,sticky='w', columnspan=3)
>>> GUI.mainloop()

```

Technologies and Framework to be used

This project is based on GUI interface. For this, I have taken assistance of **tkinter**. And the code has been written and performed on **Jupyter Notebook (Anaconda)** platform. The code is written in **Python** language and is aimed to reach the desired objective of developing a Daily Expense Tracker.

SWOT Analysis achieved in project

When we are looking at the strengths of the project, we first get highlighted by the fact that the code itself is capable of displaying the type, date and value of expenditure at one place. Therefore, this project is of immense use to the modern day society. As far as weakness or areas of improvement are concerned, the project can have slightly more functionalities, for eg to check the spending in the last week or month. Through this project, I got this wonderful opportunity to design a simple GUI based program which asks for certain inputs, and after giving that, you will be getting the desired output.

GitHub Link:
<https://github.com/harshmedhavi/Expense-tracker.git>