

Personal Budget Tracker: A Comprehensive Guide

The Personal Budget Tracker is a powerful tool designed to help you take control of your finances. This document provides a detailed overview of the program's features, underlying technology, and workflow.

Presented By
Adithya Nagaraj
Self-Learning Data Analyst
Email ID: adithya.nagaraj938@gmail.com





Objectives and Features

1 Streamlined Financial Management

The Personal Budget Tracker simplifies your financial management by providing a user-friendly interface for tracking income and expenses.

3 Financial Summaries

Generate detailed financial summaries for specific dates, providing insights into your spending patterns and budget allocation.

2 Income and Expense Tracking

Track your income and expenses in a comprehensive and organized manner, ensuring that you have a clear picture of your financial situation.

4 Overspending Prevention

Receive alerts if your expenses exceed your income, helping you stay within your budget and avoid overspending.



Data Input Phase

1

Bulk Entry Support

Effortlessly input multiple income or expense entries at once, saving you time and effort.

2

Date Specification

Specify the date for each entry, ensuring accurate tracking and analysis of your financial activities.

3

Category Assignment

Assign categories to your income and expenses, allowing for detailed analysis and budgeting optimization.

4

Amount Input

Enter the amount for each income or expense entry, providing a comprehensive record of your financial transactions.

Summary Generation Phase



Income Calculation

The program calculates the total income for the specified date by summing up all income entries.

Expense Calculation

The program calculates the total expenses for the specified date by summing up all expense entries.

Budget Calculation

The program calculates the remaining budget for the specified date by subtracting expenses from income.

Summary Display

The program displays the calculated income, expenses, and remaining budget for the specified date, providing a clear financial overview.

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1	2	3	5	6	0	7
14	19	14	14	15	16	17
20	21	27	29	23	24	20
27	26	24	27	28	29	29

Expenses



Budget liiht



Overspending Alerts

Expense Monitoring

The program continuously monitors your expenses against your income.

Alert Trigger

If your expenses exceed your income, the program triggers an overspending alert.

Notification Mechanism

The alert is delivered to the user through a visual notification, prompting them to take action.

Budget Control

The overspending alerts help users stay within their budget and prevent unnecessary debt.



Data Viewing

Date	Category	Amount
2023-10-26	Salary	\$3000
2023-10-26	Rent	\$1000
2023-10-26	Groceries	\$200
2023-10-27	Utilities	\$150
2023-10-27	Entertainment	\$50

Income						
Expenses	Catory	Predry pte	Savedry incont	Reedry mount	Creed pte	Plate ofbity amount
1) Incoms	\$,700	\$,500	\$,000	\$000	3,000	\$,5800
3) Income	\$,000	\$,000	\$,000	\$000	3,000	\$,0000
3) Incoms	\$,700	\$,000	\$,800	\$000	3,000	\$,5800
4) Incoms	\$,000	\$,000	\$,000	\$500	\$,500	\$,7500
3) Incoms	\$,000	\$,000	\$,000	\$000	3,000	\$,5500
5) Income	\$,200	00	\$,000	\$700	3,000	\$,5500
7) Incoms	\$,600	1,200	7,000	2500	4,700	\$,2500
5) Incoms	\$,700	\$,100	\$,000	2600	3,600	\$,5500
5) Incoms	\$,000	\$,200	3,400	2000	3,000	\$,3800
3) Incoms	1,550	00	\$,000	1100	3,000	2,3000
7) Incoms	\$,000	1,100	\$,000	2500	2,000	2,7500
3) Incoms	3,500		\$,000	2500	3,000	3,0000
3) Incoms	1,200	\$,100	\$,500	2400	4,000	\$,7000
3) Incoms	3,500		\$,000	2500	3,000	3,5500
4) Incoms	2,600	00	\$,000	2000	3,000	\$,5600
5) Incoms	7,600		\$,000	5500	3,000	2,3500
0) Incoms	2,900	01	\$,000	\$700	\$,000	\$,2600
2) Incoms	3,400		\$,000	3700	3,000	3,5600
5) Incoms	3,000	1,100	\$,000	5000	\$,000	\$,3800
5) Incoms	100		\$,000	5600	4,000	5,3000
7) Incoms						
5) Incoms	\$,700	01	\$,000	2400	3,700	\$,5500

Technology Stack

Python

The program is implemented using Python, a versatile and beginner-friendly programming language. Python's simplicity and extensive libraries make it an ideal choice for developing this application.

Console-Based Interface

The program features a console-based interface, providing an accessible and straightforward user experience without relying on a graphical user interface.

Program Workflow



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Data Input

Users provide income and expense data, which is then processed by the program.

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Summary Generation

The program calculates income, expenses, and remaining budget for the specified date.



Overspending Alerts

The program monitors expenses against income and triggers alerts if necessary.



Data Viewing

Users can view their income and expense lists for specific dates.

Conclusion

The Personal Budget Tracker is a valuable tool for individuals seeking to manage their finances effectively. By providing comprehensive tracking, detailed summaries, and overspending alerts, it empowers users to make informed financial decisions and achieve their financial goals.

