

FINAL PROJECT

***PRESENTATION ON
EXPENSES TRACKER***

Introduction:

- An Expense Tracker is a software application that enables individuals to record, categorize, and analyze their expenses.
- It helps users monitor their spending habits, stay within budget, and make informed financial decisions.
- By providing insights into where money is going, an expenses tracker can help users budget more effectively, they also identify areas for cost-cutting, and ultimately achieve better financial expenditures.
- It enables users to record their spending, categorize expenses, and analyze spending patterns over time.

Working:

- The Expenses Tracker works by allowing users to input their expenses, including date, category, amount, and description.
- The application stores this data and provides features to view, edit, and delete expenses.
- It also offers reporting and analytics capabilities to help users understand their spending patterns.

Uses:

- It is used for Personal finance management .
- It is used for Budgeting and expense tracking
- It is used for the Financial planning and analysis
- It is used for the Identifying areas for cost reduction
- It is used for the Tax preparation and expense reporting

Advantages:

- Easy expense tracking and management
- Improved financial awareness and planning
- Enhanced budgeting and cost control
- Simplified tax preparation and expense reporting
- Increased financial discipline and responsibility

Disadvantages:

- Initial setup and data entry required
- May require regular updates and maintenance
- Limited functionality in basic versions
- Potential for errors or inaccuracies
- Dependence on technology and data security

Future Scope:

- Integration with artificial intelligence and machine learning for predictive analytics.
- Enhanced mobile and cloud-based accessibility.
- Increased automation and synchronization with bank accounts.
- Expanded features for investment tracking and financial planning.
- Greater emphasis on data security and user privacy.

Here is a python code on expenses tracker:-

```
File Edit Format Run Options Window Help
import csv
import os
from datetime import datetime

def initialize_expense_file(filename):
    """Initialize the CSV file with headers if it does not exist."""
    if not os.path.exists(filename):
        with open(filename, 'w', newline='') as file:
            writer = csv.writer(file)
            writer.writerow(['Date', 'Category', 'Amount', 'Description'])
    print(f"Initialized {filename}")

def add_expense(filename):
    """Add a new expense entry to the CSV file."""
    date = input("Enter the date (YYYY-MM-DD): ")
    category = input("Enter the category: ")
    amount = input("Enter the amount: ")
    description = input("Enter a description: ")

    try:
        amount = float(amount)
    except ValueError:
        print("Invalid amount. Please enter a numeric value.")
        return

    with open(filename, 'a', newline='') as file:
        writer = csv.writer(file)
        writer.writerow([date, category, amount, description])

    print("Expense added successfully.")

def view_expenses(filename):
    """View all expenses stored in the CSV file."""
    if not os.path.exists(filename):
        print("No expense file found.")
        return

    with open(filename, 'r') as file:
        reader = csv.reader(file)
        headers = next(reader)
        print(f"{headers[0]:<12} {headers[1]:<15} {headers[2]:<10} {headers[3]}")
        for row in reader:
            print(f"{row[0]:<12} {row[1]:<15} {row[2]:<10} {row[3]}")
```

```
        print("-" * 50)
    for row in reader:
        print(f"{row[0]:<12} {row[1]:<15} {row[2]:<10} {row[3]}")

def main():
    filename = 'expenses.csv'
    initialize_expense_file(filename)

    while True:
        print("\nExpense Tracker")
        print("1. Add Expense")
        print("2. View Expenses")
        print("3. Exit")

        choice = input("Choose an option (1/2/3): ")

        if choice == '1':
            add_expense(filename)
        elif choice == '2':
            view_expenses(filename)
        elif choice == '3':
            print("Exiting...")
            break
        else:
            print("Invalid choice. Please choose 1, 2, or 3.")

if __name__ == "__main__":
    main()
```

OUTPUT:

Initialized expenses.csv

Expense Tracker

1. Add Expense
2. View Expenses
3. Exit

Choose an option (1/2/3): 1

Enter the date (YYYY-MM-DD): 2024-07-28

Enter the category: Food

Enter the amount: 20.50

Enter a description: Lunch at restaurant

Expense added successfully.

Expense Tracker

1. Add Expense
2. View Expenses
3. Exit

Choose an option (1/2/3): 2

Date	Category	Amount	Description
2024-07-28	Food	20.5	Lunch at restaurant

Expense Tracker

1. Add Expense
2. View Expenses
3. Exit

Choose an option (1/2/3): 1

Enter the date (YYYY-MM-DD): 2024-07-29

Enter the category: Transportation

Enter the amount: 10.00

Enter a description: Bus fare

Expense added successfully.

Expense Tracker

1. Add Expense
2. View Expenses
3. Exit

Choose an option (1/2/3): 2

Date	Category	Amount	Description
2024-07-28	Food	20.5	Lunch at restaurant
2024-07-29	Transportation	10.0	Bus fare

Expense Tracker

1. Add Expense
2. View Expenses
3. Exit

Choose an option (1/2/3): 3

Exiting...

THANK YOU