# **Expense Tracker Project Report**

### **Introduction**

The Expense Tracker is a Python-based command-line application designed to help users track their expenses efficiently. This report provides an overview of the project, its features, and implementation details.

#### **Objective**

The primary objective of the Expense Tracker project is to create a simple yet effective tool for users to record, view, and generate reports on their expenses categorized by different expense categories.

#### **Features**

- Add Expense: Users can input their expense category and the corresponding amount, which will be recorded with a timestamp.
- View Expenses: Users can view their expenses categorized by expense type.
- Generate Report: A summary report can be generated, displaying total expenses for each category and overall.

## **Implementation Details**

The project is implemented in Python and utilizes the following key components:

1. Data Storage

Expenses are stored in a JSON file named expenses.json. The json module is used for reading from and writing to this file.

2. Expense Management Functions

load expenses(): Loads expenses from the JSON file.

save\_expenses(expenses): Saves expenses to the JSON file.

add\_expense(expenses, category, amount): Adds a new expense with the provided category, amount, and timestamp.

view\_expenses(expenses): Displays expenses categorized by type.

generate\_report(expenses): Generates a summary report of total expenses by category and overall.

3. User Interface

The application provides a simple command-line interface with the following options:

Add Expense

View Expenses

Generate Report

Exit

#### 4. Main Function

The main() function acts as the entry point of the application. It repeatedly prompts the user for input until the user chooses to exit.

## **Usage**

To use the Expense Tracker, follow these steps:

- 1. Run the Python script expense\_tracker.py.
- 2. Choose from the available options to add expenses, view expenses, generate reports, or exit.

# **Conclusion**

The Expense Tracker project provides a convenient solution for individuals to manage their expenses effectively. With its user-friendly interface and essential features, it serves as a useful tool for personal finance management.