

# **Expense Tracker Documentation**

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# **1. Introduction**

**The Expense Tracker is a simple command-line application designed to help users track their daily expenses. The application allows users to add expenses, view expenses for a specific month, and view category-wise expenditure.**

## **2. Features**

- Add Expense: Users can add new expenses by providing the**

**date, amount, description, and category.**

- **View Expenses: Users can view expenses for a specific month.**
- **View Category-wise Expenditure: Users can view category-wise expenditure.**
- **Data Storage: Expenses are stored in a JSON file.**

### **3. Requirements**

- **Python 3.x**
- **JSON library**

### **4. Installation**

- 1. Clone the repository.**
- 2. Install required libraries using pip install json.**
- 3. Run the application using python extension(.py).**

## **5. Usage**

- 1. Run the application.**
- 2. Select an option from the main menu:**
  - 1: Add Expense**
  - 2: View Expenses**
  - 3: View Category-wise Expenditure**
  - 4: Quit**

**3. Follow the prompts to add expenses or view reports.**

## **6. Functions**

- **load\_expenses():** Loads expenses from the JSON file.
- **save\_expenses(expenses):** Saves expenses to the JSON file.
- **add\_expense():** Adds a new expense.
- **view\_expenses():** Views expenses for a specific month.
- **view\_category\_wise():** Views category-wise expenditure.

## **7. Variables**

- **DATA\_FILE:** The file path where expenses are stored.
- **CATEGORIES:** A list of predefined expense categories.
- **expenses:** A list of expense dictionaries.

## **8. Error Handling**

**The application handles the following errors:**

- **Invalid date format**
- **Negative amount**
- **Invalid category**

## **9. Troubleshooting**

- **Verify that the date format is YYYY-MM-DD.**
- **Check that the amount is a valid number.**

## **10. Future Development**

- **Implement user authentication.**
- **Add more expense categories.**
- **Enhance reporting feature**