# **Personal Finance Manager User Manual**

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#### 1 Introduction

The Personal Finance Manager is a Python-based command-line application designed to help you manage your finances effectively. With features like transaction tracking, budget setting, and financial reporting, it provides a secure and user-friendly way to monitor your income and expenses. This manual guides you through the installation and usage of the application.

### 1.1 System Requirements

• Operating System: Windows, macOS, or Linux

• **Python**: Version 3.6 or higher

• Disk Space: Approximately 10 MB for the application and database

• Dependencies: tabulate Python package

## 2 Installation

This section outlines the steps to install the Personal Finance Manager on your system.

## 2.1 Step 1: Install Python

1. Verify if Python 3.6+ is installed by running:

```
python --version
```

2. If Python is not installed, download and install it from python.org.

## 2.2 Step 2: Download the Application

1. Clone the repository or download the source code:

```
git clone https://github.com/your-username/personal-finance
cd personal-finance-manager
```

2. Alternatively, download the ZIP file from the repository and extract it.

## 2.3 Step 3: Install Dependencies

1. Install the tabulate package using pip:

```
pip install tabulate
```

2. Ensure you have an active internet connection for the installation.

#### 2.4 Step 4: Run the Application

1. Navigate to the project directory and run:

```
python Finance_Manager.py
```

2. The application will create a local SQLite database (finance\_manager.db) on first run.

## 3 Usage Instructions

The Personal Finance Manager operates through a command-line interface with intuitive menus. Below are the key functionalities and how to use them.

## 3.1 Getting Started

1. Launch the application by running:

```
python Finance_Manager.py
```

2. You will see the main menu with options to **Register**, **Login**, or **Exit**.

## 3.2 User Account Management

- Register:
  - Select option 1 from the main menu.
  - Enter a username (minimum 3 characters).
  - Enter a password (minimum 6 characters) and confirm it.
  - Passwords are securely hashed using SHA-256.
- Login:
  - Select option 2.
  - Enter your username and password to access your account.
- Logout:
  - After logging in, select option 10 to log out securely.

#### 3.3 Managing Transactions

- Add Transaction (Option 1):
  - Choose transaction type (income or expense).
  - Enter the amount (e.g., 50.75).
  - Select or create a category (e.g., Salary, Food).
  - Add an optional description.
  - Specify the date (YYYY-MM-DD) or leave blank for today.
- **View Transactions** (Option 2):
  - Filter by all transactions, date range, category, or type.
  - View a tabulated summary with total income, expenses, and balance.

- **Edit Transaction** (Option 3):
  - View recent transactions and select an ID to edit.
  - Update type, amount, category, description, or date as needed.
- **Delete Transaction** (Option 4):
  - Select a transaction ID and confirm deletion.

### 3.4 Setting and Viewing Budgets

- **Set Budget** (Option 5):
  - Specify the month and year (or use current).
  - Choose an expense category and set a budget amount.
- **View Budgets** (Option 6):
  - Select a month and year to see budgets, spending, and remaining amounts.
  - Progress indicators show budget status (Green for safe, Orange for near limit, Red for over budget).

#### 3.5 Generating Reports

- Select option 7 to access report types:
  - Monthly Report: Summarizes income, expenses, and budget performance for a specific month.
  - Yearly Report: Shows monthly breakdowns and top categories for a year.
  - Category Breakdown: Analyzes spending by category over a date range.
  - Income vs Expense Trend: Displays daily or monthly trends.

## 3.6 Data Backup and Restore

- **Backup Data** (Option 8):
  - Creates a backup file in the backups / directory with a timestamp.
- **Restore Data** (Option 9):
  - Lists available backups for your account.
  - Select a backup to restore, replacing current data (with confirmation).

## 4 Troubleshooting

- Missing tabulate: Run pip install tabulate.
- Invalid Date: Use YYYY-MM-DD format (e.g., 2025-05-19).
- Backup Not Found: Verify the backups / directory exists and contains your backup files.