

# SmartBudget — Project Description

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SmartBudget is a lightweight Python package for managing household finances. It lets users add income and expense records, save, load and clean data in JSON format, and generate basic financial summaries. The package demonstrates modular programming, OOP design, and practical data handling.

It contains four sub-packages:

**1. entity** – Defines data models

Includes a RecordBase superclass, with Income and Expense inheriting and adding type-specific fields.

**2. analysis** – Performs calculations

Functions compute total income, expenses, and net balance, and generate simple summary details.

**3. io** – Manages storage

Supports saving, cleaning, loading, and appending JSON data, plus listing or deleting files.

**4. core** – Provides application logic

Controllers handle record creation, summaries, backups, and utilities. A menu-based console interface guides user actions.