**Finance Tracker Documentation**

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**Abstract**

This document presents the documentation for the Finance Tracker project developed as the coursework for SD1 Part 2. This is a python based CRUD featured application which was made for the purpose of making the user’s life easier by keeping a track of transactions and calculating then income and expenses.

**Introduction**

This address the need of storing the user’s transactions and monitor them. The user doesn’t have to remember every transaction he made or write the transactions he made in a log book. This doesn’t take any physical space to store and effective as well.

**System Overview**

* This application consists several components:
  + Data Management : Manage user income and expense.
  + Reports : Generate a report of every transaction he made and a summary of income & expenses user made with specific and detailed information.

**Features and Functionality**

* Add transactions -> Allow users to add income or expense type transactions by the category(Description of a transaction).
* Update transactions -> Allow users to update already existing transactions.
* Delete transactions -> Allow users to delete a transaction which recorded already.
* Transaction tracking -> Keep a track of transactions user made throughout the time period it will give a summary for transaction the user did.

**Implementation Details**

* File handling - Used JSON to store and retrieve user data.
* Exception Handling - Ensures that the program run smoothly without any errors.
* Loops and conditions - Make sure that the code is bug free and iterative when needed.
* Dictionaries - Used for storing and manipulating financial transactions
* Functions - It gives a better functionality, readability, structure and reusability as well.

**User Manual**

* Launch the application and then select which ever option you need service of. Then enter the asking inputs and boom the application will do everything for you. You just have to follow the instructions of the application.
* If you want to import a already existing file to the program. You just have to copy the file to the same folder where the system exists and then go for the Read from a file feature and enter the file name. And boom the application will do everything for you.

1 -> Adding a transaction

2 -> Viewing the existing transactions

3 -> Updating an existing transaction

4 -> Deleting an existing transaction

5 -> Displaying the summary of the transaction the user did

6 -> Import transaction from an external file

7 -> Exiting the program

**Conclusion**

In conclusion, the Finance Tracker program provides an effective solution for managing personal finances. Its user-friendly interface, coupled with powerful features, makes it a valuable tool for individuals seeking to gain control over their financial management.