Personal Finance Tool Software Requirements Specification

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Contents

1 Revision History

Revision	**Date**	**Revision Description**	**Author**
`v1.0.0`	03/01/2024	Initial release of requirements set.	Sean Twomey

Table 1: Table containing revision history of this document.

2 Acronym Table

Acronym	**Full Description**
SRS	Software Requirements Specification
PFT	Personal Finance Tool

Table 2: Table containing acronyms/abbreviations used throughout document and their full descriptions.

3 Introduction

The Software Requirements Specification (SRS) should ultimately outline what this piece of software will do and how it will fulfill the needs of all stakeholders. This section will outline preliminary information about the Personal Finance Tool (PFT) to help introduce a user or stakeholder to the application. After reading this section it should be clear the purpose of the application, who it's intended for use by, and what it should be used for.

3.1 Purpose

For `v1.0.0` the purpose of the PFT is to help a user understand their financial picture better with regards to the funds they have available, the upcoming bills they must pay, and the amount that they have leftover to spend as they see fit. This application should allow a user to realize how much of their available money can be distributed to other spending purposes/goals as opposed to the portion of their funds that are tied up in meeting obligatory payments.

This application is intended for use by anybody who has money available to them, reoccuring bills, and spending goals. Essentially anybody who wishes to differentiate between the total funds they have available to them, the funds that are reserved for obligatory payments, and then the funds they have available for meeting their other spending goals.

3.2 Intended Audience

This SRS is meant for use by developers, testers, product/project managers, sales and marketing individuals, or anybody else that would like to gain a better understanding of the requirements for the tool. After reading this document, a contributor or stakeholder should understand the purpose of the PFT and functionalities the application possesses.

3.3 Intended Use

The primary use of this application will consist of on a month-by-month basis, a user managing their available funds throughout the month. They will enter into the application their available funds, their obligatory bills, whether or not the bills have been paid, and more. The user will use the tool to understand how much money they have available, how much of that money needs to be allocated for upcoming bills, when these bills are due, and how much money is available for other spending purposes. This application is meant for use by anyone who has money available to them, reoccurring bills, and wishes to understand their financial picture better.

3.4 Product Scope

The scope of the PFT is to take the form of a desktop-based applicaion which initially allow a user to input their total available funds and the bills they must pay with associated data. The tool will then allow a user to select which of the bills they have paid or have yet to pay thoughout the month. The tool will compute the amount of money they have available for other spending purposes as the month goes on. It will also offer a financial picture to the user based on saved information the user has entered, allowing them to understand their financial situation over time.

3.5 Assumptions and Dependencies

It's assumed that this application will be developed with a modern programming language and framework. It's also assumed that users of the application will have access to a computer where they can run the application and enter their personal financial information. This application does not have any dependencies on anything other than the technical stack that will be used to create it.

4 Prompt User For Financial Information On First Launch

Requirement Number	Requirement Name	Requirement Text

F1	Prompt User For Financial Information On First Launch	The PFT shall prompt the user to enter their financial information the first time it is launched.

4.1 Prompt User For Total Available Money

Requirement Number	Requirement Name	Requirement Text
F1.1	Prompt User For Total Available Money	The PFT shall prompt the user to enter the total amount of money they have upon first launch.

4.1.1 Save Total Available Money To A Configuration File

Requirement Number	Requirement Name	Requirement Text
F1.1.1	Save Total Available Money To A Configuration File	The PFT shall save the total available amount of money entered by the user to a configuration file.

4.1.2 Enforce A Positive Dollar Amount Is Entered

Requirement Number	Requirement Name	Requirement Text
F1.1.2	Enforce A Positive Dollar Amount Is Entered	The PFT shall make sure that the total amount of money entered is a positive value to two decimal places. If a user enters a negative number, an appropriate error message will be generated and the user will need to re-attempt entering the value.

4.2 Prompt User For Bills

Requirement Number	Requirement Name	Requirement Text
F1.2	Prompt User For Bills	The PFT shall prompt the user to enter their bills in the form of a merchant and a dollar amount owed.

4.2.1 Save Bills To A Configuration File

Requirement Number	Requirement Name	Requirement Text
F1.2.1	Save Bills To A Configuration File	The PFT shall save the bills entered by the user to a configuration file in the form of merchant and amount owed combinations.

4.2.2 Enforce A Non-Empty Payee Is Entered

Requirement Number	Requirement Name	Requirement Text
F1.2.2	Enforce A Non-Empty Payee Is Entered	The PFT shall make sure that the payee for each bill is not an empty string. If a user attempts to save a bill with an empty payee, an appropriate error message will be generated and the user will need to re-attempt entering the bill.

4.2.3 Enforce A Non-Empty And Positive Amount Owed Is Entered

Requirement Number	Requirement Name	Requirement Text
F1.2.3	Enforce A Non-Empty And Positive Amount Owed Is Entered	The PFT shall make sure that the amount owed for each bill is not empty and is a positive value. If a user attempts to save a bill with an empty or negative amount owed, an appropriate error message will be generated and the user will need to re-attempt entering the bill.

4.3 Allow User To Finish Entering Financial Information

Requirement Number	Requirement Name	Requirement Text
F1.3	Allow User To Finish Entering Financial Information	The PFT shall have a control which allows the user to finish the process of entering their financial information.

5 Display User's Financial Dashboard

Requirement Number	Requirement Name	Requirement Text
F2	Display User's Financial Dashboard	The PFT shall use the saved financial information to generate a dashboard which displays the user's financial information.

5.1 Display User's Total Money Available

Requirement Number	Requirement Name	Requirement Text
F2.1	Display User's Total Money Available	The PFT shall display the saved total amount of money available to the user.

5.2 Display User's Bills

Requirement Number	Requirement Name	Requirement Text
F2.2	Display User's Bills	The PFT shall display the saved bills in the form of a payee and amount owed to the user.

5.2.1 Display Whether Or Not Each Bill Needs To Be Paid

Requirement Number	Requirement Name	Requirement Text
F2.3	Display Whether Or Not Each Bill Needs To Be Paid	The PFT shall display whether or not each bill needs to be paid.

6 Allow User To Adjust Financial Dashboard

Requirement Number	Requirement Name	Requirement Text
F3	Allow User To Adjust Financial Dashboard	The PFT shall allow the user to adjust their financial dashboard.