

Software Requirements Specification

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1 Revision History

Tuesday February 6th, 2018 Version 1.0

Tuesday February 7th, 2018 Version 1.1 Reworked context, added Business rules, Non-functional requirements

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2 Project Description

2.1 Introduction

The primary goal of this project is to develop a program to manage one's own finances to satisfy a targeted savings amount. Using this program, the users can obtain critical information about their spending and make better, educated decisions on how to manage their finances.

2.2 Context

what is this document for

2.3 Business goals

The primary business goal is to make our customers save more and to make them adopt our software applications, which will allow us to provide a better service as a more well rounded financial company. This in turn allows us to increase efficiency (needs less employees to serve customers on the same topic), increase our market share, as we did not have this service beforehand which will in turn increase our profit margin because we have access to more customers than before.

2.4 Scope

The MyMoneyApp software is a financial management application, developed in Java as a standalone desktop application targeting young consumers. This system's aim is to help users to make wise and accurate decisions when they have a target amount of savings they want to have for a month. It performs this operation by first getting the user's bank statement, then displaying them on-screen to differentiate what amount of money has went into what type of service, and to then be able to change those amounts in the coming months. The main qualities of MyMoneyApp, is that it is easy-of-use, user-friendly and efficient, which will allow the purchasing company to satisfy its customers' needs. All in all, this software will help the company to hold its market leader position in the financial domain.

2.5 Domain model

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2.6 Actors

This document is intended to be read by:

- Users of the software: this document allows them to have a more complete idea about the system and its functionalities.

- Team developers: they can use this document as a primary resource for all subsequent project development phases (design, coding, testing and maintenance phases).
- Testers: To be able to test the system in accordance to the specified requirements.
- CEO of the company that has hired us: this document will allow them to deeper understand and have a more comprehensive idea about the requirements of the project.

3 Functional requirements

3.1 Overview

This section includes all the details regarding the use cases and features afforded to the user of the MyMoney application. Those features include creating and logging into an account, accessing various information about the transactions made with a bank account, and creating, inspecting and deleting budgetary goals to be stored in a list.

3.2 Use cases

3.2.1 Create user accounts

Action	Account management
Case ID	1.1
Summary	User provides the necessary information for the creation of an account.
Scope	Budget management application
Trigger	Registration button
Precondition	None
Postcondition	Account is created
Primary Actor	User
Secondary Actor	Filesystem

Main Scenario-Step	Action
1	User Clicks on Register.
2	User enters a username, password, and password confirmation, and click “Register Account” button.
3	System verifies if the username is already taken.
4	System gets login credentials from File System.
5	System verifies in login file if the password and password confirmation are the same.
6	System creates account object.
7	System saves the username and password combination to the database/textpad.
8	System displays login menu, with account creation confirmation, and asks user to login.
9	System goes idle.

3.2.2 Access user accounts

Action	Account management
Case ID	1.2
Summary	User provides the necessary information to login.
Scope	Budget management application
Trigger	Login button
Precondition	Have a registered account
Postcondition	Account is accessed
Primary Actor	User
Secondary Actor	Filesystem

Main Scenario-Step	Action
1	User inputs username and password.
2	User clicks on the “login” button.
3	System verifies if the username ,password pair exists.
4	System displays the user’s transaction logs.
5	System goes idle.

3.2.3 Load and display transactions data

Action	Load and display transaction data
Case ID	2
Summary	User provides the the number of his credit card number for the reviewing of his spending.
Scope	Budget management application
Trigger	Get my info button
Precondition	To be logged in as a user
Post condition	Transaction data is displayed
Primary Actor	User
Secondary Actor	Filesystem

Main Scenario-Step	Action
1	User Enters his credit card number.
2	User clicks on the get transaction data button.
3	System pulls the information from the textpad/database.
4	Transaction data is displayed on the screen.
5	System goes idle.

3.2.4 Set budgetary objectives

Action	Account customization
Case ID	3
Summary	The user is able to create, inspect and delete budgetary objectives
Scope	Budget management application
Trigger	Objectives button
Precondition	To be logged in as a user
Postcondition	Objectives info displayed and editable
Primary Actor	User
Secondary Actor	Filesystem

Main Scenario-Step	Action
1	...
2	...
3	...
4	...
5	...

3.3 Business Rules

The customer must not be able to alter his balance that he entered (read only)
The customer must have a credit card with a balance on it (textpad in this case)

4 Non-functional requirements

The login information is encrypted (password/username) Very intuitive to use (requires no computer knowledge)

5 Design Constraints

The programming language used in this software is Java. The main feature is giving a clear representation of the user's spending over the course of a bank statement. The representation will take the form of graphs and charts defining where their money went. Users can only view their past data and cannot alter it. The maintenance and feature upgrades are handled by us, the developers of MyMoneyApp.

6 Glossary

Transaction A transaction summarizes a positive or negative money transaction made by the user in real life and is composed of the amount of money exchanged during the transaction, the date when the transaction was made, the business the transaction was completed with, and the category which the transaction relate to (e.g. food, home, transportation, salary, ...)

Budgetary objective A budgetary objective represents a goal that the user wishes to aim towards in term of money saving. An objective tracks how much money was spent on what category or categories of goods and services in a set amount of time and compares it with a set goal. A budgetary objective is considered a success if the amount of money spent in the tracked amount of time on the tracked objective is smaller than the set goal. It is tagged as "In progress" if the period of time tracked includes the current date. It is considered a failure otherwise.

7 References

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