Project Workbook

Spring 2023

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Issue** | **Description** | **Author** |
| January 27, 2023 | Project Phase 1 | Adding Glossary for assignment1 | Group 13/Section 003 |
| January 27, 2023 | Project Phase 1 | Adding system actors | Group 13/Section 003 |
|  | Project Phase 1 | Adding Use Cases |  |
|  | Project Phase 1 | Adding Use Case Diagram |  |

Table of Contents

[IFINANCE System Glossary 4](#_Toc410769842)

[1.1 Introduction 4](#_Toc410769843)

[1.2 Glossary 4](#_Toc410769844)

[IFINANCE System Actors 5](#_Toc410769845)

[IFINANCE System Use cases 6](#_Toc410769846)

[IFINANCE System Use case Diagram 7](#_Toc410769847)

# IFINANCE System Glossary

## Introduction

This document is used to define terminology specific to the problem domain, explaining terms, which may be unfamiliar to the reader of the use-case descriptions or other project documents. Often, this document can be used as an informal *data dictionary*, capturing data definitions so that use-case descriptions and other project documents can focus on what the system must do with the information.

## Glossary

The glossary contains the working definitions for the key concepts in the IFINANCE System.

|  |  |
| --- | --- |
| Term | definition |
| iFinance | It is multi-purpose Personal Finance Management tool for Windows based computers intended to help control all kinds of money issues. |
| Bank Accounts | A bank account is a financial account maintained by a customer with a financial institution. It allows the customer to deposit, withdraw, and manage funds in a secure and convenient manner. |
| Investment Accounts | An investment account is a type of financial account that is used to hold and manage investments such as stocks, bonds, mutual funds, and exchange-traded funds (ETFs). |
| Cards | It is a type of financial instrument that allows the cardholder to make purchases or withdraw cash without using cash or writing a check. The most common types of payment cards are credit cards, debit cards, and prepaid cards. |
| Deposits | Deposit refers to the act of putting money into a financial institution such as a bank or a savings and loan association. Deposits can be made in a variety of forms, including cash, checks, or electronic transfers. |
| Expenses | Expenses refer to the cost incurred in the process of running a business or maintaining a household. These costs can include but are not limited to: raw materials, wages, utilities, taxes, and insurance. |
| Assets | An asset is a resource that is expected to produce economic value or benefits for its owner. Assets can be tangible, such as real estate, or intangible, such as patents and copyrights. |
| Liabilities | A liability is a financial obligation or debt that a person or company owes to another party. Liabilities arise when a borrower borrows money or receives goods or services on credit. |
| Balance Sheet | A balance sheet is a financial statement that provides a snapshot of a company's financial position at a specific point in time. It lists the company's assets, liabilities, and equity, and shows how these items are financed and how they relate to each other. The balance sheet equation is: Assets = Liabilities + Equity. |
| Use-case | A use case is a written description of how users will perform tasks on your website. It outlines, from a user’s point of view, a system’s behavior as it responds to a request. Each use case is represented as a sequence of simple steps, beginning with a user's goal and ending when that goal is fulfilled. |
| Use-Case Diagram | It is the primary form of system/software requirements for a new software program underdeveloped. |
| Actors | An actor represents a role of a user that interacts with the system that you are modeling. |
| iFINANCE Custom Group | This form shall allow the user to add, update, or delete a custom sub-category (called Groups). This includes groupID, groupName, groupElement, i.e., Assets, Liabilities, Income, and Expenses, and groupParent. |
| iFINANCE Chart of Accounts | will be another UI component to help the users to add, update, or delete Master Account (e.g., cash, bank, and credit card). Each Master Account in the Chart of Accounts record will include accountID, accountName, openingAmount, closingAmount, and accountGroup (to specify a group/sub-group to which the account belongs) |
| Trail Balance | The report that represents the Closing balance of all master Accounts. |
| Profit and Loss Statement | Subtracting all Expenses from Income to derive profit or Loss figure.  Eg: Profit or Loss = Income – Expenses. |

# IFINANCE System Actors

| **Actor** | **Description** |
| --- | --- |
| iFinance Users | Users who have already registered with the iFinance system can access their accounts directly by logging in. Users can reset the password. Users can added together to form the group so they can update, add or delete the Master Account. |
| Non-Admin Users | New users can register for new Account and Admin can give the access to them after reviewing their details. |
| Admin | They grant the new Account to new Users after reviewing the user details and they can update, delete the profile of users. They are responsible for ensuring around the clock technical maintenance and support. |

# IFINANCE System Use cases

| **Use Case** | **Description** |
| --- | --- |
| Login/Authentication and Password Encryption | User can Login to the iFinance Website and access their account using their credentials. It also encrypts the passwords of the users for security purposes. It is initiated by the system whenever user tries to login. |
| Reset Password | Registered Users can reset the password whenever they want to update to ensure their account is safe. |
| Manage Transaction | The transaction which was added earlier can be updated with the amount, date or the type of transaction.  The transaction which was added earlier can be deleted from the system if the transaction was invalid to the user now.  The transaction which was added earlier can be deleted from the system if the transaction was invalid to the user now. |
| Manage user records/account | The Administrator will grant access to user to the iFinance site after User request for the Account.  The Administrator can update the User profile with the User details after user confirms the changes to the profile.  The Administrator can delete the User profile after user confirms the deletion of the profile. |
| Manage Groups | The User can add the Subcategory under the Main Category with all the details about the Transaction.  The User can Update the Subcategory under the Main Category with all the details that needs the update in the Transaction.  The User can delete the Sub Category under the Main Category if the sub category is added by mistake or unknowingly. |
| Manage Accounts | The User can add, update or delete the Master Account eg: cash, bank or credit cards. |
| Generate Reports | User can request the Trail Balance sheet and view the data in the form of PDF from the iFinance Site to Analyze the Credits and Debits.  User can request the Balance Sheet and view the data in the form of PDF from the iFinance Site to Analyze the Credits and Debits.  User can request the Profit and Loss Statement and view the data in the form of PDF from the iFinance Site to Analyze the Credits and Debits.  User can request the Cash Flow and view the data in the form of PDF from the iFinance Site to Analyze the Credits and Debits. |
| Display report | The report can provide insights into the financial performance and can help users make informed decisions based on that information. |
| Print report | In iFinance site print report allow users to generate a printable version of a report that can be easily shared or reviewed offline. This functionality can be useful in situations where users need to share or present the report to others who do not have online access to the website. |

**IFINANCE System Use case Diagram**

**Diagram

Description automatically generated**